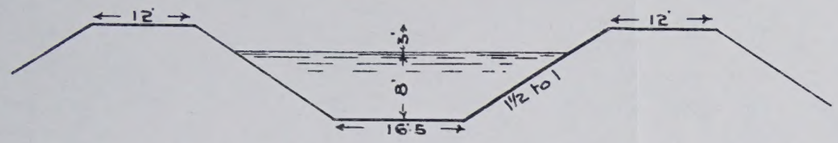
Cross Section of Canal

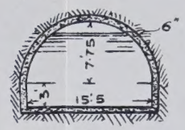
Sta. 0+00 to 525+00



A = 228
P = 45·3
R = 5·03
S = ·00015
C = 79·6
V = 2·18
Q = 498 C.F.S.

Tunnel at Beazer

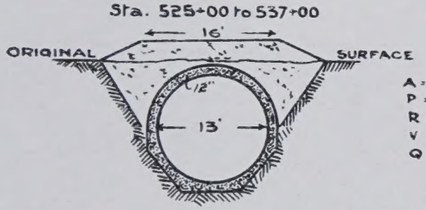
Sta. 677+50 to 681+00



A = 118·3
P = 32·4
R = 3·68
S = ·00015
C = 166·7
V = 3·92
Q = 470 C.F.S.

Lee Creek Syphon

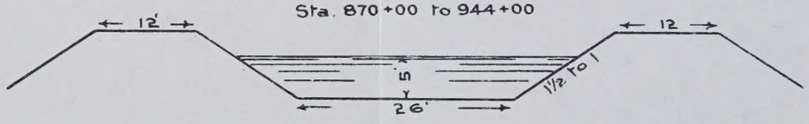
Sta. 525+00 to 537+00



A = 132·8
P = 40·8
R = 3·24
V = 3·68
Q = 487·4 C.F.S.

Cross Section of Canal

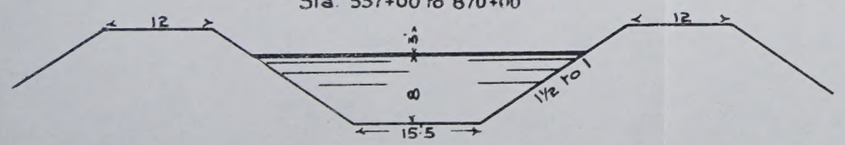
Sta. 870+00 to 944+00



A = 167·5
P = 44·04
R = 3·8
S = ·0004
C = 75
V = 2·92
Q = 490 C.F.S.

Cross Section of Canal

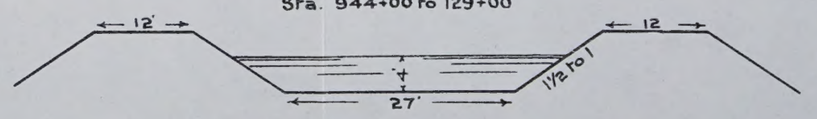
Sta. 537+00 to 870+00



A = 220
P = 44·3
R = 4·96
S = ·00015
C = 79·5
V = 2·17
Q = 478 C.F.S.

Cross Section of Canal

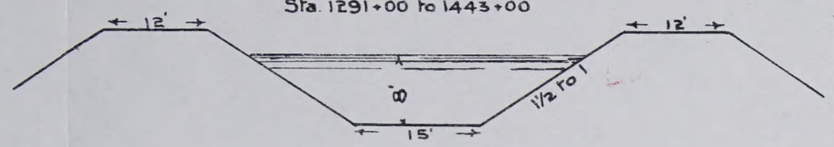
Sta. 944+00 to 129+00



A = 132
P = 41·42
R = 3·19
S = ·0011
C = 71·8
V = 4·26
Q = 561 C.F.S.

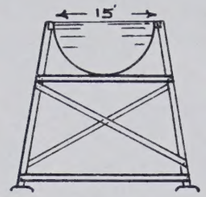
Cross Section of Canal

Sta. 1291+00 to 1443+00



A = 216
P = 43·8
R = 4·92
S = ·00015
C = 78·5
V = 2·16
Q = 405 C.F.S.

Standard Metal Flume



A = 90
P = 23·73
R = 3·79
S = ·0003
C = 166·8
V = 5·67
Q = 510·3 C.F.S.

Department of the Interior

IRRIGATION OFFICE.

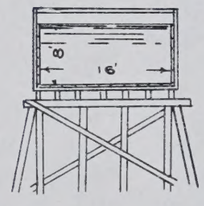
BELLY RIVER

DIVERSION CANAL

KEY PLAN OF STRUCTURES

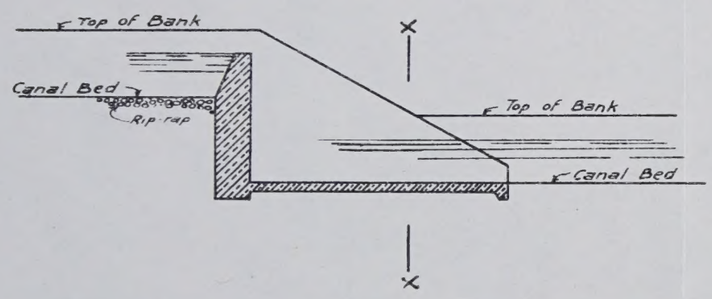
Scale 20 Ft. = 1 Inch.

Standard Timber Flume



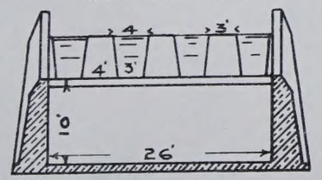
A = 128
P = 32
R = 4
S = ·0001
C = 206
V = 4·12
Q = 527 C.F.S.

Standard Notch Drop



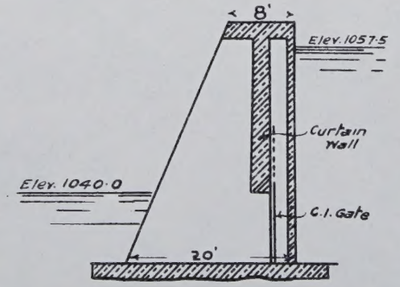
Standard Notch Drop

Section X-X

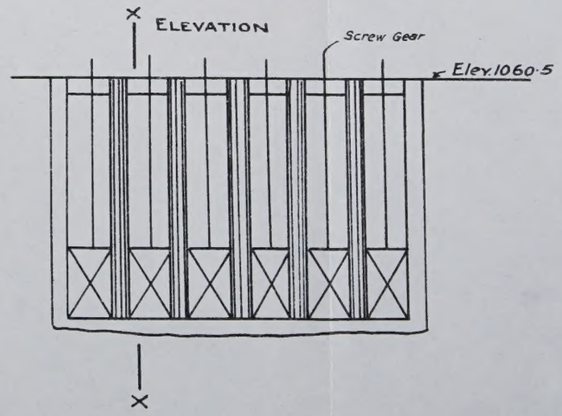


Headgate

Section X-X



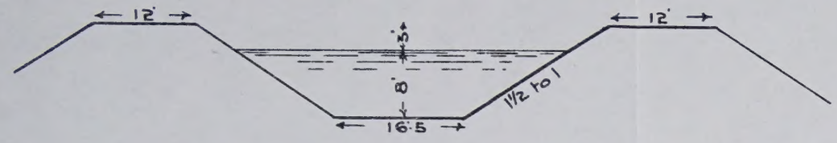
Elevation



UAA-1974-169-9/2/7/6/37-001

Cross Section of Canal

Sta. 0+00 to 525+00



A = 228
P = 45.3
R = 5.03
S = .00015
C = 79.6
V = 2.18
Q = 498 C.F.S.

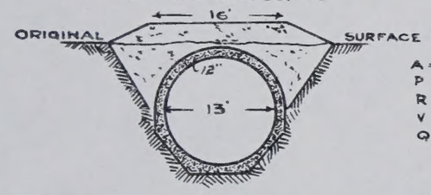
Tunnel at Beazer

Sta. 677+50 to 681+00

A = 118.3
P = 32.4
R = 3.68
S = .00015
C = 166.7
V = 3.92
Q = 470 C.F.S.

Lee Creek Syphon

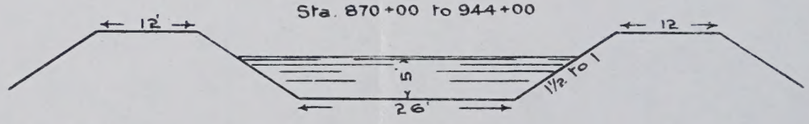
Sta. 525+00 to 537+00



A = 132.8
P = 40.8
R = 3.24
V = 3.68
Q = 487.4 C.F.S.

Cross Section of Canal

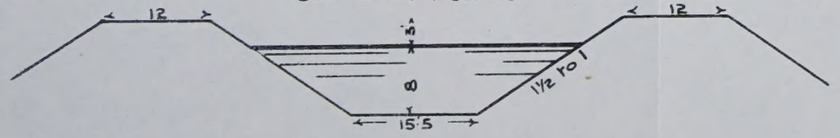
Sta. 870+00 to 944+00



A = 167.5
P = 44.04
R = 3.8
S = .0004
C = 75
V = 2.92
Q = 490 C.F.S.

Cross Section of Canal

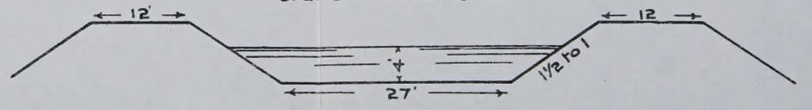
Sta. 537+00 to 870+00



A = 220
P = 44.3
R = 4.96
S = .00015
C = 79.5
V = 2.17
Q = 478 C.F.S.

Cross Section of Canal

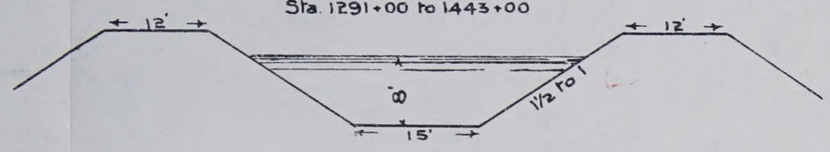
Sta. 944+00 to 129+00



A = 132
P = 41.42
R = 3.19
S = .0011
C = 71.8
V = 4.26
Q = 561 C.F.S.

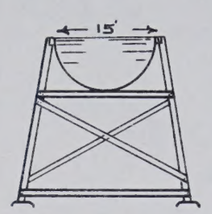
Cross Section of Canal

Sta. 1291+00 to 1443+00



A = 216
P = 43·8
R = 4·92
S = ·00015
C = 79·5
V = 2·16
Q = 465 C.F.S.

Standard Metal Flume



A = 90
P = 23·73
R = 3·79
S = ·0003
C = 166·8
V = 5·67
Q = 510·3 C.F.S.

Department of the Interior

IRRIGATION OFFICE.

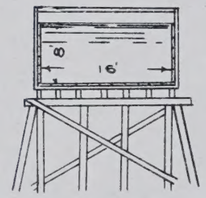
BELLY RIVER

DIVERSION CANAL

KEY PLAN OF STRUCTURES

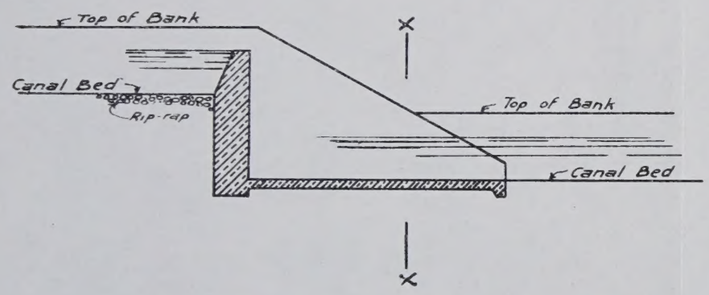
Scale 20 Ft. = 1 Inch.

Standard Timber Flume



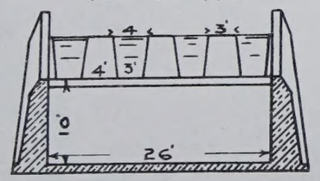
A = 128
P = 32
R = 4
S = ·0001
C = 206
V = 4·12
Q = 527 C.F.S.

Standard Notch Drop



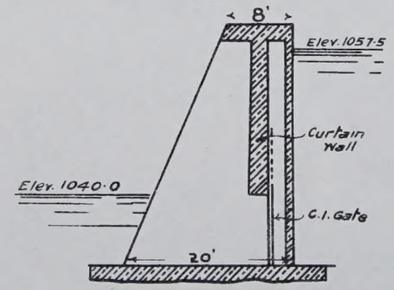
Standard Notch Drop

Section X-X

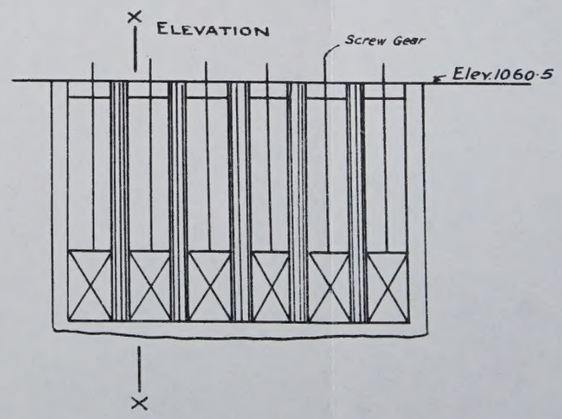


Headgate

Section X-X



Elevation



UAA-1974-169-9/2/7/6/37-002

D-99

66-C

DEPARTMENT OF THE INTERIOR, CANADA

REPORT OF THE IRRIGATION BRANCH, 1912

Maps and Plans accompanying Report

W. E. STERLING
No. 13 L. 20
SERIES

1. Key plan Belly, St. Mary River diversion canal.
2. Key plan Belly, St. Mary River diversion canal structures.
3. Map showing preliminary location of South Saskatchewan diversion project.
4. (a) Plan of reservoir site, South Saskatchewan diversion project.
   (b) Cross Sections of Dam sites 'A', 'B' and 'C'.

DEPARTMENT OF THE INTERIOR

WATER POWER BRANCH—MAP AND PLATES

Accompanying the Annual Report of the Superintendent of Water Powers, 1912–1913, being Part VIII of Annual Report of the Department of the Interior

	PLATE
Contour Map of Bow River Basin.	
B. C. Railway Belt, showing Hydrographic Survey District and Gauging Stations	1
Manitoba Hydrographic Surveys, showing location of Gauging Stations	2
Profile of Power Section of Bow River, showing proposed and existing Developments	3
Plan of Winnipeg River Basin	4
Winnipeg Electric Railway, Pinawa Channel, General Layout	8
Winnipeg Electric Railway, Pinawa Channel, Sectional Plan of Power House	9
Winnipeg Electric Railway, Pinawa Channel, Section of Power House	10
Winnipeg River Profile, showing proposed and existing developments	11
Winnipeg River, Existing and possible powers below Kenora	12
Western Canada Power Co., Stave River Development, Key Map	13
Western Canada Power Co., Stave River Development, General Plan	14
Western Canada Power Co., Stave River Developments, General Section	15
Vancouver Power Co., Coquitlam Dam, Layout and section through Tunnel	16
Calgary Power Co., Horseshoe Falls Development, General Layout	19
Calgary Power Co., Horseshoe Falls Development, Plan of Power House	20
Calgary Power Co., Horseshoe Falls Development, General Section	21
Calgary Power Co., Horseshoe Falls Development, Plan of Intake	22
Calgary Power Co., Minnewanka Dam, Plan of Dam	23
Calgary Power Co., Minnewanka Dam, Elevation of Dam	24
Calgary Power Co., Minnewanka Dam, Section through Dam	25
Calgary Power Co. Kananaskis, Falls Development, General Layout	26
Calgary Power Co., Kananaskis Falls Development, Plan of Power House	27
Calgary Power Co., Kananaskis Falls Development, General Section	28
City of Prince Albert, La Colle Falls Development, General Layout	29
City of Prince Albert, La Colle Falls Development, General Section of Dam	30
City of Prince Albert, La Colle Falls Development, General Section of Power House	31
Pitt Meadows Reclamation	32
Sumas Dyking Project	33
Electric Lighting Project, Banff	34
Cascade River Power Development	35
Pasquia Reclamation Project, Plan of Cedar and Cross Lakes	36
Pasquia Reclamation Project, Showing area flooded	37
South Saskatchewan Water Diversion Project, Routes for proposed City Water supply	38
South Saskatchewan Water Diversion Project, Sources of Fuel, Power and Indiciations thereof	39

UAA-1974-169-9/2/7/6/37-003

DAM No 3.

EARTH DIKE

7½ FT. DIA. SUPPLY PIPE

RESERVOIR
FOR INITIAL SCHEME
AREA 337.6 Acres
CAPACITY 2913 Acre-ft.
790,662,000 Gals.

EARTH DAM No 2

1970

35

23

3 FT. DIAMETER PIPE TO CARRY SURFACE WATER THROUGH

7 FT DIAMETER PIPE

RESERVOIR FOR INITIAL
AREA 1,250 Acres.
CAPACITY 18,750 Acre-ft.
5,088,352,500 Gals.

6 FT. DIA PIPE

970 BYPASS AROUND

1965 — Top of Dam 1965
1960 — Level of Water 1960
1955
1950
Bottom of Lake, soft muck, a few inches of water

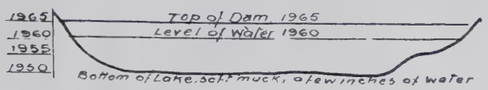
SECTION OF LAKE DAM No 2
Scale { HOR 1000'=1"
VERT 50'=1"

1970 — Top of Dam 1970
1965 — Level of Water 1963
1960
creek

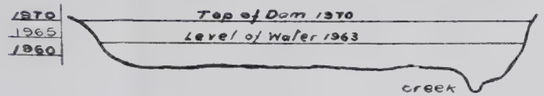
SECTION OF VALLEY DAM No 1.
Scale { HOR. 1000'=1"
VERT { 50'=1"

Top of Dam 196
Level of water 196
Slope 3-1
TYPICAL SE

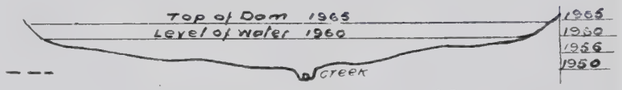
NOTE: All Elevations referred to C.P.R Base of Rail at Tugaske
For Sea Level Datum add 2275 FT.



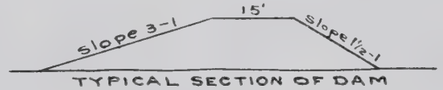
SECTION OF LAKE DAM N°2
Scale { HOR 1000'=1"
VERT 50'=1"



SECTION OF VALLEY DAM N°1.
Scale { HOR. 1000'=1"
VERT 50'=1"



SECTION OF VALLEY DAM N°3
Scale { HOR 1000'=1"
VERT 50' =1"



TYPICAL SECTION OF DAM

DEPARTMENT OF THE INTERIOR
IRRIGATION OFFICE
PLAN
OF
RESERVOIR SITE
FOR
SOUTH SASKATCHEWAN
PIPE LINE
Scale 1000 FT = 1 IN.

TOWNSHIP 20 RANGE 6 WEST 3RD MER

3 FT. DIAMETER PIPE TO CARRY SURFACE WATER THROUGH RESERVOIR

7 FT DIAMETER PIPE

RESERVOIR FOR INITIAL SCHEME

AREA 1,250 Acres.
CAPACITY 18,750 Acre-ft.
5,088,352,500 Gals.

1970

1970 BY PASS AROUND

DAM N°1

N°2

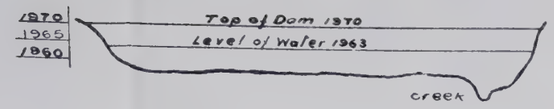
PIPE

23

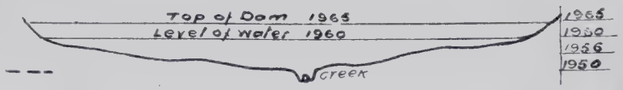
s referred to C.P.R Base of Rail at Tugaske

DEPARTMENT OF THE INTERIOR
IRRIGATION OFFICE
PLAN
OF
RESERVOIR SITE
FOR
SOUTH SASKATCHEWAN
PIPE LINE
Scale 1000 FT = 1 IN.

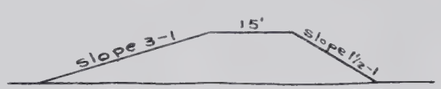
TOWNSHIP 20 RANGE 6 WEST 3RD MER



SECTION OF VALLEY DAM No.1.
Scale HOR. 1000'=1" VERT 60'=1"



SECTION OF VALLEY DAM No 3
Scale HOR 1000'=1" VERT 50'=1"



TYPICAL SECTION OF DAM

3 FT. DIAMETER PIPE TO CARRY SURFACE WATER THROUGH RESERVOIR

7 FT DIAMETER PIPE

INITIAL SCHEME

RESERVOIR FOR

AREA 1,250 Acres.
CAPACITY 18,750 Acre-ft.
5,088,352,500 Gals.

PIPE

970 BY PASS

AROUND

RESERVOIR

EARTH DAM No 1

23

22

15

ns referred to C.P.R. Base of Rail at Tugaske
For Sea Level Datum add 22.75 FT.

RESERVOIR
FOR INITIAL SCHEME
AREA 337.6 Acres
CAPACITY 2913 Acre-ft.
790,662,000 Gals.

7½ FT. DIA. SUPPLY PIPE

EARTH DAM No 2

EARTH DAM No 1

1970

1970

3 FT. DIAMETER PIPE TO CARRY SURFACE WATER THROUGH INITIAL RESERVOIR

7 FT DIAMETER PIPE

6 FT. DIA PIPE

970 BY PASS AROUND

RESERVOIR FOR
AREA 1,250 Acres.
CAPACITY 18,750 Acre-ft.
5,088,352,500 Gals.

1970	Top of Dam 1970
1965	Level of Water 1963
1960	creek

SECTION OF VALLEY DAM No. 1.
Scale HOR. 1000'=1" VERT. 60'=1"

Top of Dam 1965
Level of Water 1960
creek
SECTION OF VALLEY D
Sc

slope 3-1
TYPICAL SEC

35

23

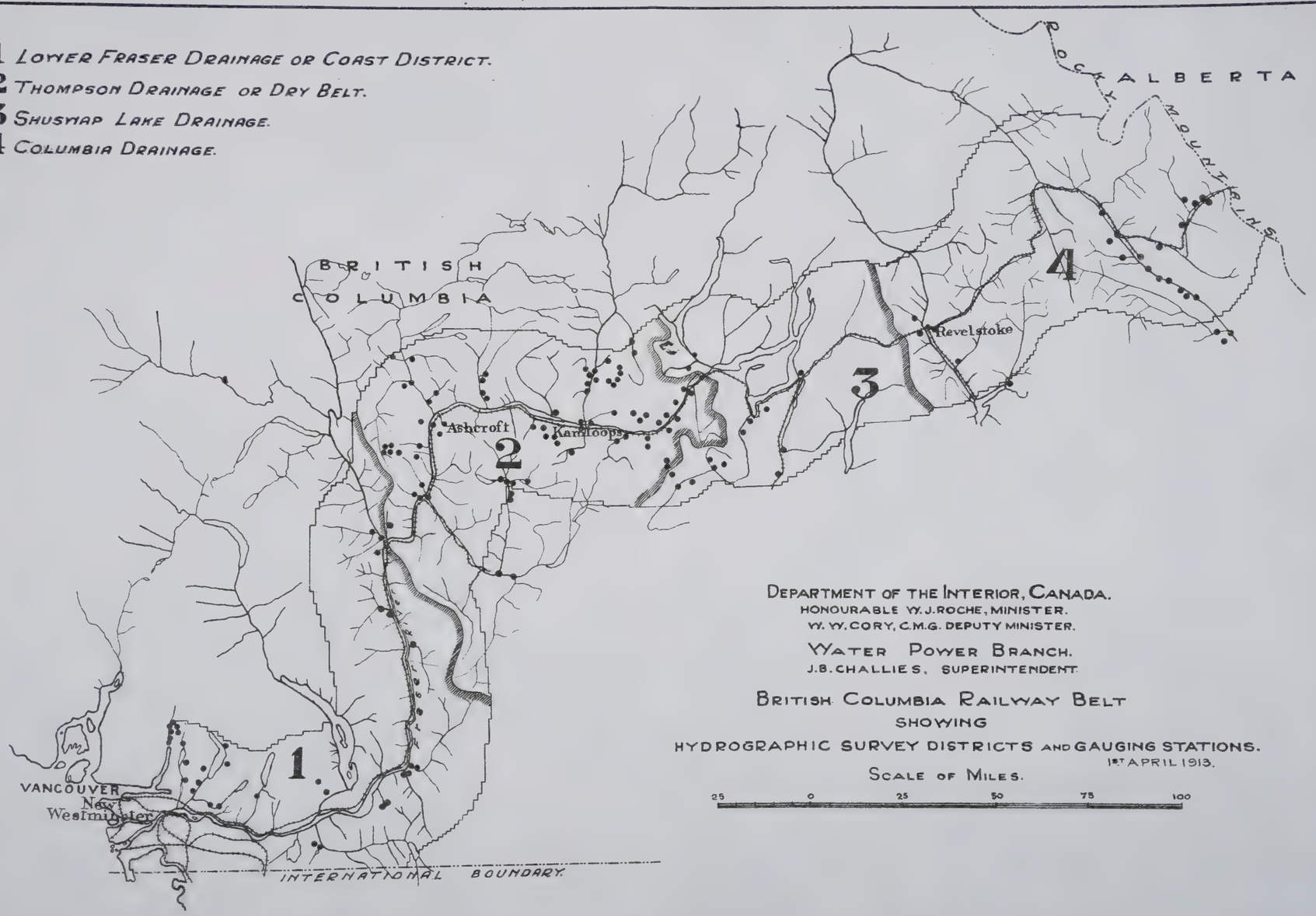
22

NOTE: All Elevations referred to C.P.R Base of Rail at Tugaske
For Sea Level Datum add 22.75 FT.

UAA-1974-169-9/2/7/6/37-004

PLATE Nº1

1 Lower Fraser Drainage or Coast District.
2 Thompson Drainage or Dry Belt.
3 Shuswap Lake Drainage.
4 Columbia Drainage.



DEPARTMENT OF THE INTERIOR, CANADA.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C.M.G. DEPUTY MINISTER.

WATER POWER BRANCH.
J.B. CHALLIES, SUPERINTENDENT.

BRITISH COLUMBIA RAILWAY BELT
SHOWING
HYDROGRAPHIC SURVEY DISTRICTS AND GAUGING STATIONS.
1ST APRIL 1913.

SCALE OF MILES.

25 0 25 50 75 100

UAA-1974-169-9/2/7/6/37-006

PLATE Nº

DEPARTMENT OF THE INTERIOR CANADA

HONOURABLE W. J. ROCHE, MINISTER

W. W. CORY. C. M. G. DEPUTY MINISTER

WATER POWER BRANCH.

J. B. CHALLIES, SUPERINTENDENT.

MANITOBA HYDROGRAPHIC SURVEYS

MAP SHOWING LOCATION OF GAUGING STATIONS

Scale of Miles.

25 0 25 50 75

LEGEND

GAUGING STATIONS
1st APRIL 1913

- Regular Stations
- Miscellaneous
- Gauge only.

PLATE Nº 2

101° 100° 99° 98° 97° 96° 95°

52°

51°

50°

DEPARTMENT OF THE INTERIOR CANADA.

HONOURABLE W. J. ROCHE, MINISTER

W. W. CORY. C. M. G. DEPUTY MINISTER

WATER POWER BRANCH.

J. B. CHALLIES, SUPERINTENDENT.

MANITOBA HYDROGRAPHIC SURVEYS.

MAP SHOWING LOCATION OF GAUGING STATIONS

Scale of Miles.

25 0 25 50 75

LEGEND

GAUGING STATIONS
1st APRIL 1913

- ● Regular Stations
- ■ Miscellaneous
- ▲ Gauge only.

MANITOBA

ONTARIO

SASKATCHEWAN

Pas.

Saskatchewan R.

Cedar Lake

GRAND RAPIDS

Long Pt.

LAKE WINNIPEGOSIS

McLaughlin R.

Belanger R.

Big Black R.

Poplar River.

Leaf River

Etomami River

Berens River.

Pigeon River

Reindeer Is.

Warpath River.

Swan River

Lake St. Martin

Bloodvein R.

Mossy River.

Valley R.

DAUPHIN.

Lake Dauphin

LAKE MANITOBA

PRINCIPAL MERIDIAN

Manigotagan R.

Black R.

Bird River.

Point du Bois.

WINNIPEG RIVER

ENGLISH R.

Wabigoon River

Sandy L.

Manitou R.

Lac Seul.

Lost L.

Cat lake.

Trout L.

KENORA

MINNEDOSA

BRANDON

WINNIPEG

RIVER

25 0 25 50 75

GAUGING STATIONS
1st APRIL 1913

LEGEND
- Regular Stations
- Miscellaneous
- Gauge only.

MANITOBA

ONTARIO

U. S. A.

Swan River
Winnipegosis
Meadow Portage
Reindeer Is.
Meeth River
Poplar River
Leaf River
Etomami River
Berens River
Pigeon River
Bloodvein R.
Lake St. Martin
Mossy River
Valley R.
Lake Dauphin
DAUPHIN
LAKE MANITOBA
PRINCIPAL MERIDIAN
Manigotagan R.
Black R.
Bird River
Point du Bois
WINNIPEG RIVER
ENGLISH R.
Wabigoon River
Sandy L.
Trout L.
Cat lake.
Manitou R.
Lac Seul.
Lost L.
KENORA
LAKE OF THE WOODS
Rainy R.
Kettle Falls
MINNEDOSA
BRANDON
ASSINIBOINE RIVER
WINNIPEG
RED RIVER
Boggy R.
Rat River
Roseau R.
INTERNATIONAL BOUNDARY

52°
51°
50°
49°
101°
100°
99°
98°
97°
96°
95°
94°
93°

F.W.B.

25 0 25 50 75

LEGEND

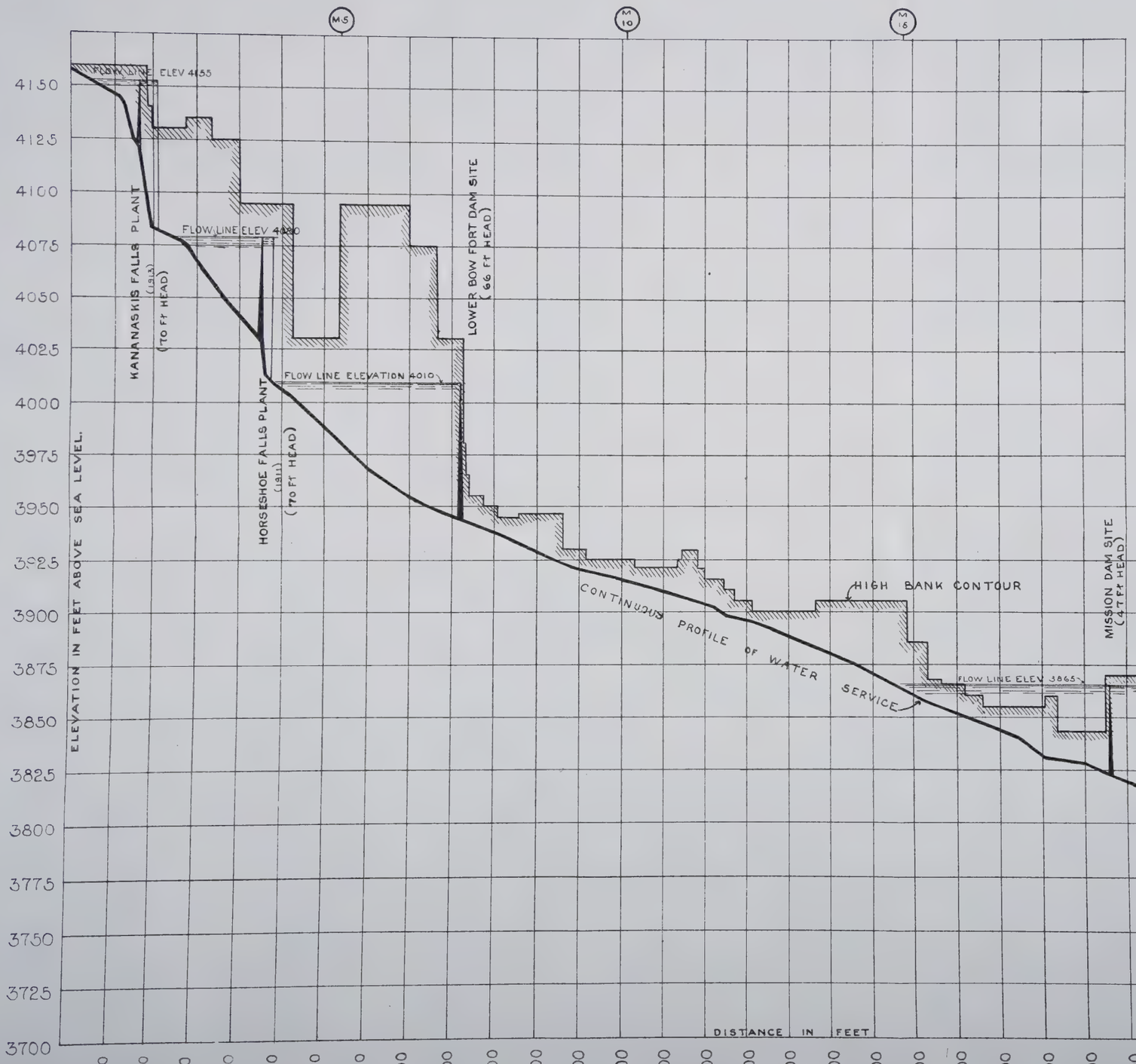
GAUGING STATIONS
1st APRIL 1913

- Regular Stations
- Miscellaneous
- Gauge only.

Poplar River.
Leaf River
Etomami River
Berens River.
Pigeon River
Reindeer Is.
Warpath River.
Swan River
Mossy River.
Valley R.
DAUPHIN.
Lake Dauphin
Lake St. Martin
LAKE MANITOBA
PRINCIPAL MERIDIAN
Bloodvein R.
Manigotagan R.
Black R.
Bird River.
Point du Bois.
WINNIPEG RIVER
Trout L.
Manitou R.
Lac Seul.
ENGLISH R.
Wabigoon River
Lost L.
Sandy L.
KENORA
LAKE OF THE WOODS
Rainy R.
MINNEDOSA
BRANDON
ASSINIBOINE RIVER
WINNIPEG
RED RIVER
Rat River
Roseau R.
Boggy R.
INTERNATIONAL BOUNDARY
U. S. A.
MANITOBA
ONTARIO
52°
51°
50°
49°
101°
100°
99°
98°
97°
96°
95°
94°
93°

UAA-1974-169-9/2/7/6/37-006

UAA-1974-169-9/2/7/6/37-006



Department of the Interior, Canada.
HONOURABLE W.J ROCHE. MINISTER
W.W CORY, C.M.G DEPUTY MINISTER

Water Power Branch
J.B CHALLIES. SUPERINTENDENT.

PROFILE
OF
POWER SECTION OF BOW RIVE

Shewing proposed and existing Develop

SCALES

Horizontal. 1 3/4 1/2 1/4 0 1 2 Miles.

Vertical. 25 10 5 0 50 75 Feet.

PLATE Nº 3

Department of the Interior, Canada.
HONOURABLE W.J. ROCHE. MINISTER
W.W. CORY, C.M.G. DEPUTY MINISTER

Water Power Branch
J.B. CHALLIES. SUPERINTENDENT.

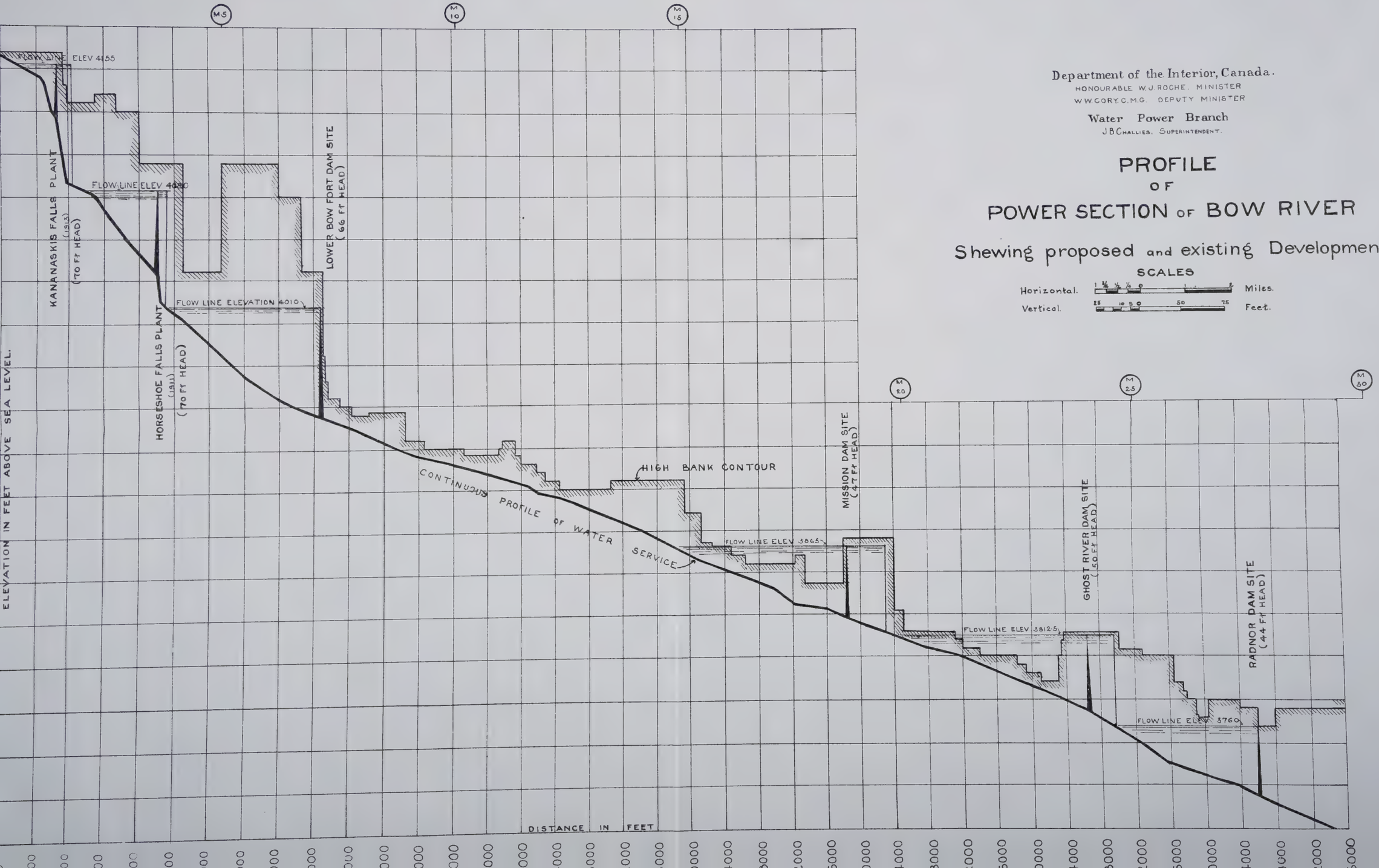
PROFILE
OF
POWER SECTION OF BOW RIVER

Shewing proposed and existing Developments.

SCALES

Horizontal. 1 ½ ¼ ½ 0 1 2 Miles.

Vertical. 25 10 5 0 50 75 Feet.



Department of the Interior, Canada.
HONOURABLE W.J. ROCHE. MINISTER
W.W. CORY, C.M.G. DEPUTY MINISTER
Water Power Branch
J.B. CHALLIES. SUPERINTENDENT.

PROFILE
OF
POWER SECTION OF BOW RIVER

Shewing proposed and existing Developments.

SCALES

Horizontal. 1 ¼ ½ ¼ 0 1 2 Miles.

Vertical. 25 10 5 0 50 75 Feet.

ELEVATION IN FEET ABOVE SEA LEVEL.

FLOW LINE ELEV 4155

KANANASKIS FALLS PLANT (1913) (70 Ft HEAD)

FLOW LINE ELEV 4080

HORSESHOE FALLS PLANT (1911) (70 Ft HEAD)

LOWER BOW FORT DAM SITE (66 Ft HEAD)

FLOW LINE ELEVATION 4010

CONTINUOUS PROFILE OF WATER SERVICE

HIGH BANK CONTOUR

MISSION DAM SITE (47 Ft HEAD)

FLOW LINE ELEV 3865

GHOST RIVER DAM SITE (150 Ft HEAD)

FLOW LINE ELEV 3812.5

RADNOR DAM SITE (44 Ft HEAD)

FLOW LINE ELEV 3760

M 5 M 10 M 15 M 20 M 25 M 30

DISTANCE IN FEET

4000 8000 12000 16000 20000 24000 28000 32000 36000 40000 44000 48000 52000 56000 60000 64000 68000 72000 76000 80000 84000 88000 92000 96000 100000 104000 108000 112000 116000 120000 124000 128000 132000 136000 140000 144000 148000 152000 156000

Department of the Interior, Canada.
HONOURABLE W.J. ROCHE. MINISTER
W.W. CORY. C.M.G. DEPUTY MINISTER
Water Power Branch
J.B. CHALLIES. SUPERINTENDENT.

PROFILE
OF
POWER SECTION OF BOW RIVE

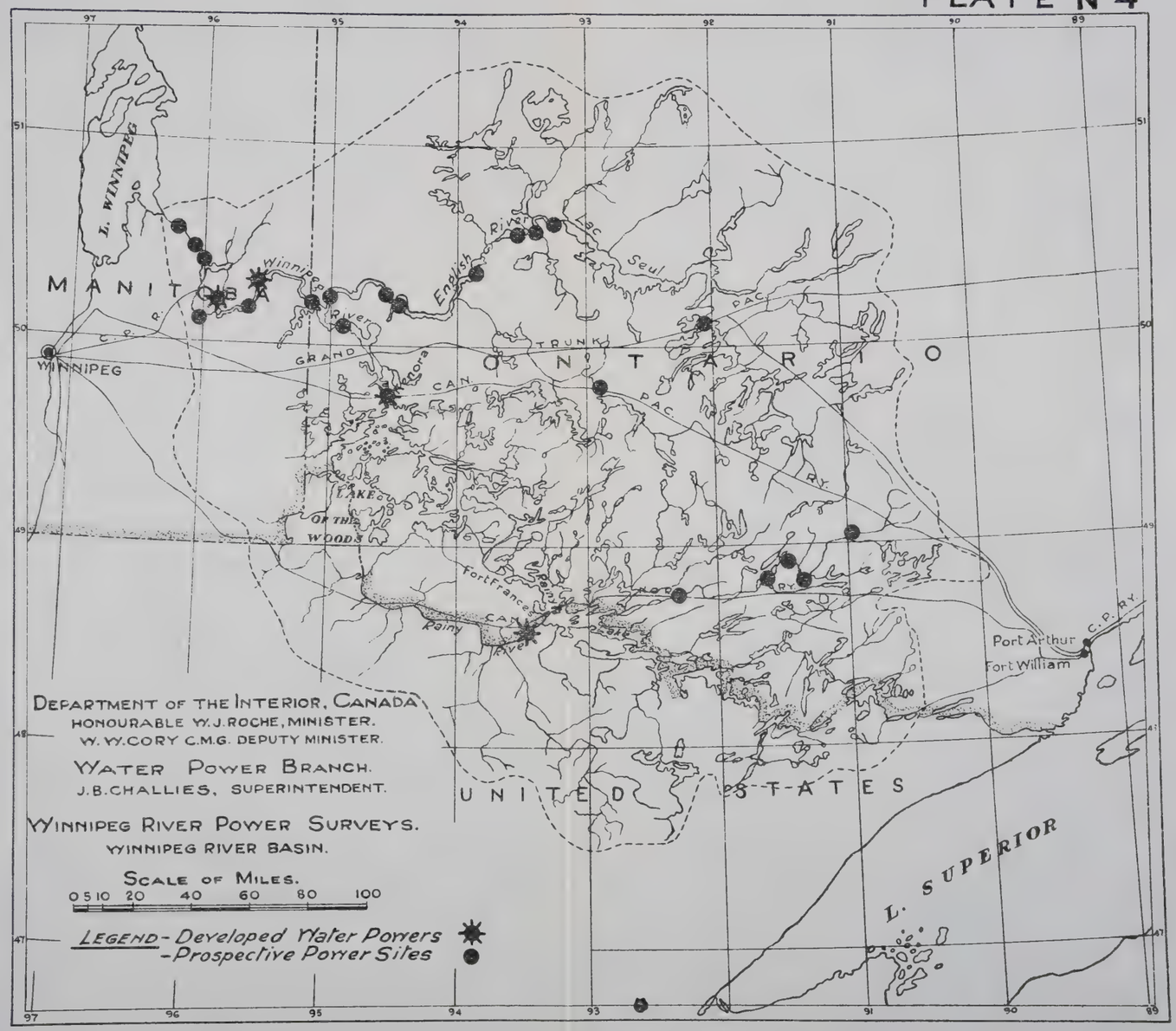
Shewing proposed and existing Develo

SCALES
Horizontal. 1 ½ ½ ¼ 0 1 2 Miles.
Vertical. 25 10 5 0 50 75 Feet.

UAA-1974-169-9/2/7/6/37-007

UAA-1974-169-9

PLATE N°4


L. WINNIPEG
MANITOBA
Winnipeg
Winnipeg River
English River
Lac Seul
WINNIPEG
GRAND TRUNK PAC. RY.
ONTARIO
CAN. PAC. RY.
LAKE OF THE WOODS
Fort Frances
Rainy R.
Port Arthur
Fort William
C.P. RY.
UNITED STATES
L. SUPERIOR
DEPARTMENT OF THE INTERIOR, CANADA
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY C.M.G. DEPUTY MINISTER.
WATER POWER BRANCH.
J. B. CHALLIES, SUPERINTENDENT.
WINNIPEG RIVER POWER SURVEYS.
WINNIPEG RIVER BASIN.
SCALE OF MILES.
0 5 10 20 40 60 80 100
LEGEND - Developed Water Powers
- Prospective Power Sites
97
96
95
94
93
91
90
89
51
50
49
48
47

UAA-1974-169-9/2/7/6/37-008

PLATE No 39

109 108 107 106 105 104 103 102

Swan Lake.

Swan River

North Saskatchewan River

C. N. R.

C. N. R.

C. N. R.

C. N. R.

SASKATOON

C. N. R.

C. P. R.

C. P. R.

Big Quill Lake

C. P. R.

C. N. R.

C. N. R.

C. P. R.

G. T. P.

C. N. R.

C. N. R.

G. T. P.

South Saskatchewan R.

C. N. R.

G. T. P.

Outlook 6

C. P. R.

ELBOW

Manitou Lake

C. P. R.

C. P. R.

Melville

C. P. R.

G. T. P.

C. P. R.

G. T. P.

Qu'Appelle River

C. P. R.

C. N. R.

C. P. R.

G. T. P.

C. P. R.

C. P. R.

Qu'Appelle River

REGINA

C. P. R.

C. P. R.

C. P. R.

C. N. R.

C. N. R.

C. P. R.

C. P. R.

C. N. R.

C. N. R.

G. T. P.

C. P. R.

WEYBURN

C. P. R.

C. P. R.

C. P. R.

C. N. R.

C. N. R.

C. P. R.

C. P. R.

C. P. R.

C. P. R.

C. N. R.

MER.

Salvador 1

Kerrobert 2

Eagle Lake 3

Brock 4

Eagle Hills 5

Saskatchewan River South

Saskatchewan landing 7

Thunder Cr.

Pelican L.

Lake Chaplin

MOOSE JAW 11

Pense 12

Rouleau 13

Moose Jaw Cr.

New Warren 14

Big Stick Lake

Crane Lake

Swift Current 9

Swift Current Cr.

Lake Johnston

North Branch Wood R.

Middle Branch

South Br.

DIRT HILLS 15

CONSUMERS COAL CO 16

Lake of the Rivers

Maple Creek 8

Pinto Horse Cr.

Whitewater Lake

Radville

CYPRESS HILLS 10

Cypress Lake

Wood Mountain 17

32nd MER.

18

19

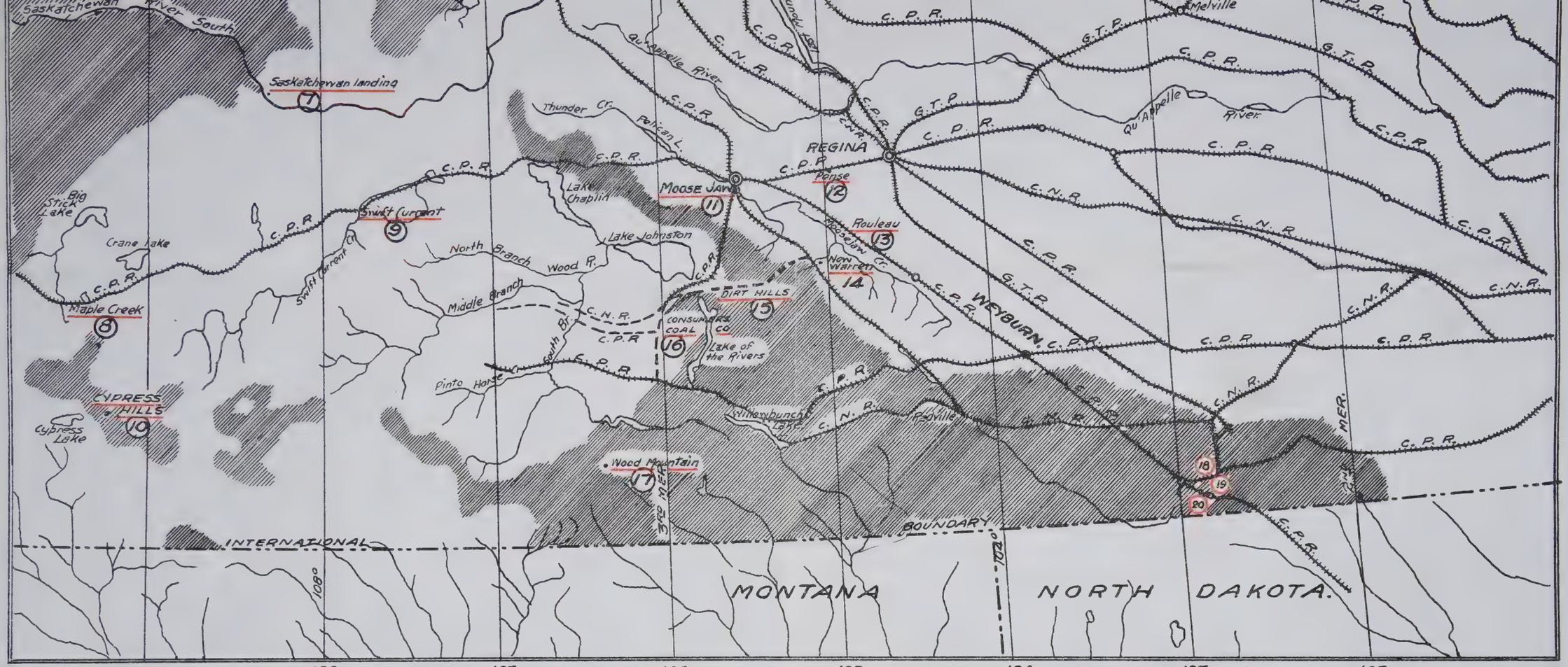
20

BOUNDARY

PLATE Nº 39

109 108 107 106 105 104 103 102

Salvador 1
Kerrobert 12
Eagle Lake 3
Eagle Hills 5
Brock 4
Outlook 6
Saskatchewan landing 7
Maple Creek 8
Swift Current 9
Cypress Hills 10
Moose Jaw 11
Rouleau 13
New Warren 14
Dirt Hills 15
Consumers Coal Co. 16
Wood Mountain 17
Pense 12
Melville 18 19 20
Big Quill Lake
Swan Lake
Swan River
Lake of the Rivers
Last Mountain Lake
Qu'Appelle River
Thunder Cr.
Pelican L.
Lake Chaplin
Lake Johnston
Crane Lake
Big Stick Lake
Cypress Lake
Pinto Horse
Middle Branch
North Branch Wood R.
Swift Current Cr.
Moose Jaw Cr.
Willowbunch Lake
Assiniboine R.
North Saskatchewan River
South Saskatchewan R.
Saskatchewan River South
SASKATOON
ELBOW
REGINA
WEYBURN
Assiniboia
BOUNDARY
3RD MER.
2ND MER.
C.N.R.
C.P.R.
G.T.P.
S.P.R.
C.&E.R.
Sask. V.



LEGEND

Shaded portions represent areas of lignite

DEPARTMENT OF THE INTERIOR.

WATER POWER BRANCH.

J. B. CHALLIES. SUPERINTENDENT.

CITY WATER SUPPLY FROM THE S. SASKATCHEWAN RIVER. SOURCES OF FUEL POWER & INDICATIONS THEREOF

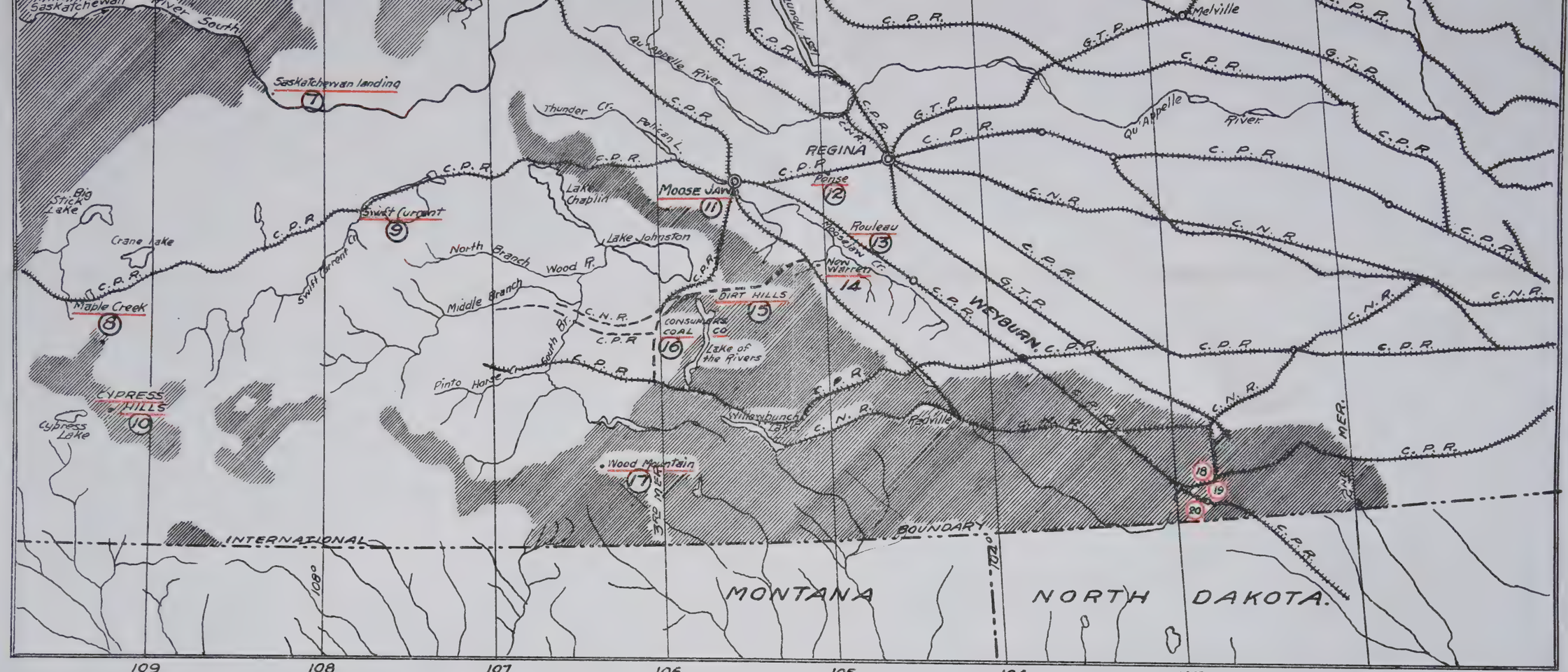
TO ACCOMPANY. REPORT BY. H.E.M. Kensit. M.I.E.E.

Scale: 35 Statue Miles to 1 inch = 2,217,600.

25 15 10 0 25 30 75 100 125 150

Ottawa; Ont. March. 28th 1913.

F.W.B.



LEGEND

Shaded portions represent areas of lignite

TO ACCOMPANY. REPORT BY. H.E.M. Kensit. M.I.E.E.

DEPARTMENT OF THE INTERIOR.

WATER POWER BRANCH.

J. B. CHALLIES. SUPERINTENDENT.

CITY WATER SUPPLY FROM THE S. SASKATCHEWAN RIVER. SOURCES OF FUEL POWER & INDICATIONS THEREOF

Scale: 35 Statue Miles to 1 inch = 2,217,600.

25 15 10 0 25 30 75 100 125 150

Ottawa; Ont. March. 28th 1913.

F.W.B.

UAA-1974-169-9/2/7/6/37-009

UAA-1974-169-9/2/7/6/37

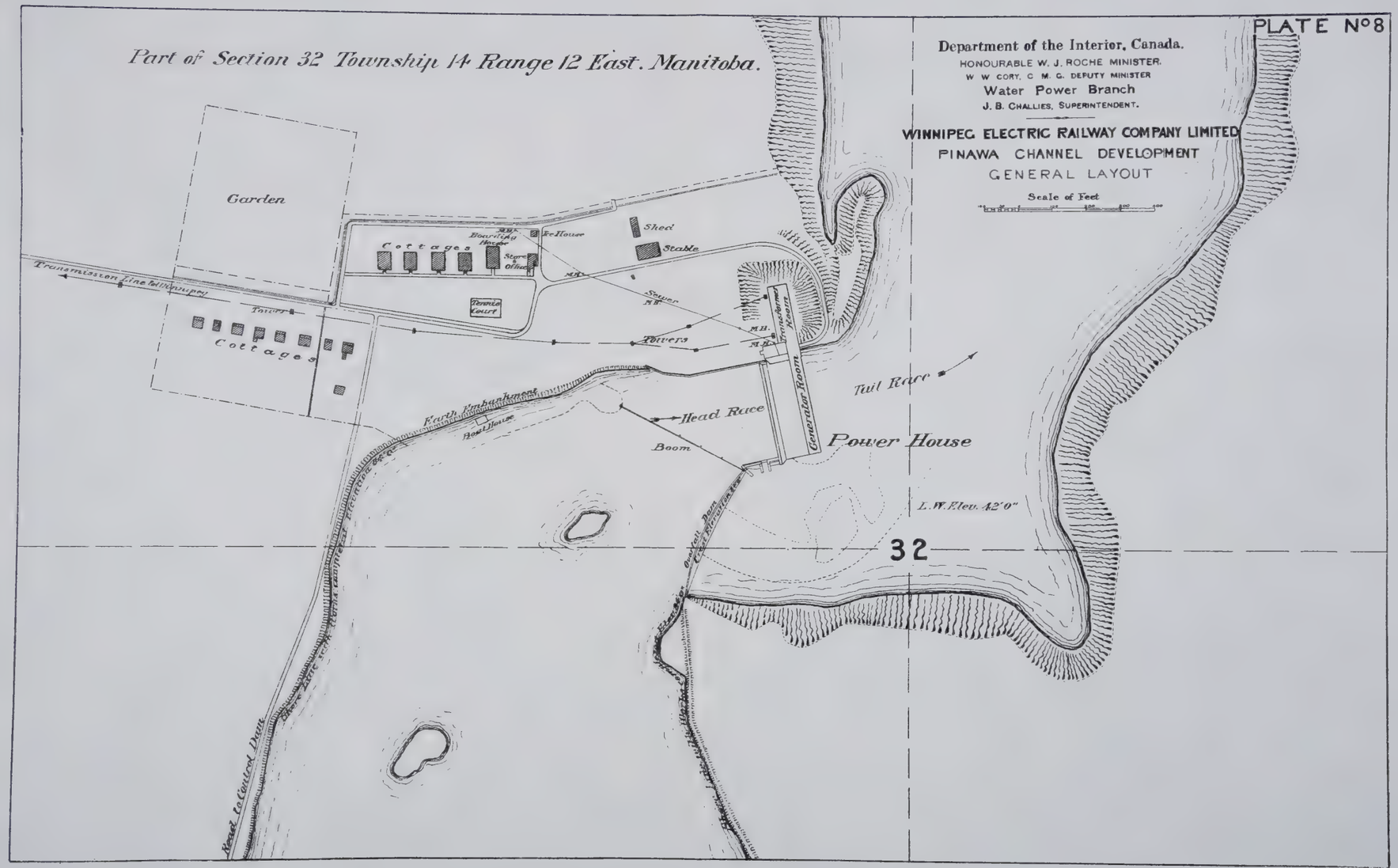
PLATE N°8

Part of Section 32 Township 14 Range 12 East. Manitoba.

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

WINNIPEG ELECTRIC RAILWAY COMPANY LIMITED
PINAWA CHANNEL DEVELOPMENT
GENERAL LAYOUT

Scale of Feet



UAA-1974-169-9/2/7/6/37-010

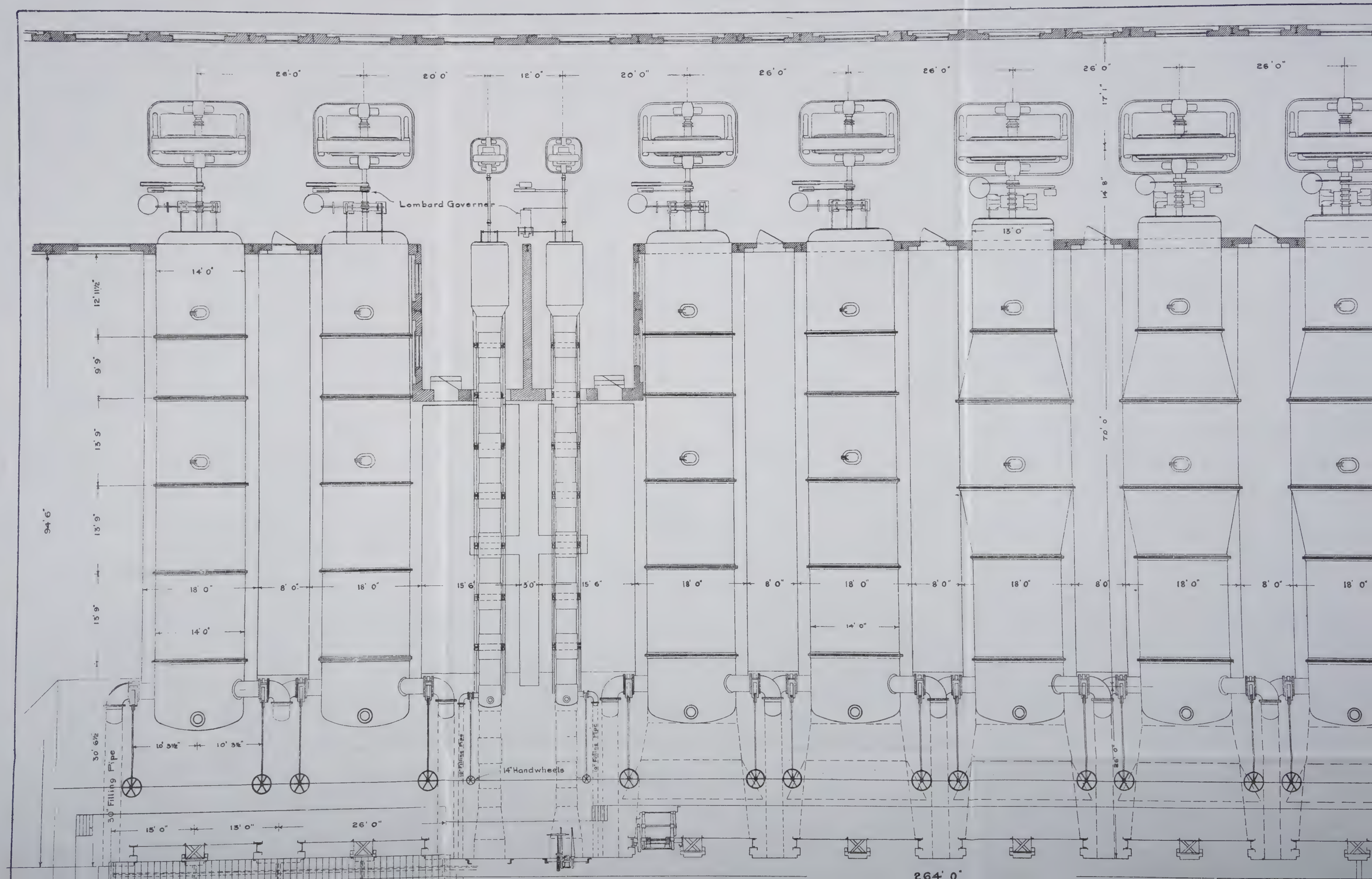

26'-0"
20'0"
12'0"
20'0"
26'0"
26'0"
26'0"
26'0"
Lombard Governer
14'0"
13'0"
12'11½"
9'9"
15'9"
13'9"
15'9"
94'6"
18'0"
8'0"
18'0"
15'6"
3'0"
15'6"
18'0"
8'0"
18'0"
8'0"
18'0"
8'0"
18'0"
8'0"
18'0"
14'0"
14'0"
70'0"
17'1"
14'8"
30'6½"
30" Filling Pipe
10'3½"
10'3½"
16" Filling Pipe
14" Handwheels
9" Filling Pipe
15'0"
13'0"
26'0"
26'0"
264'0"

PLATE Nº 9

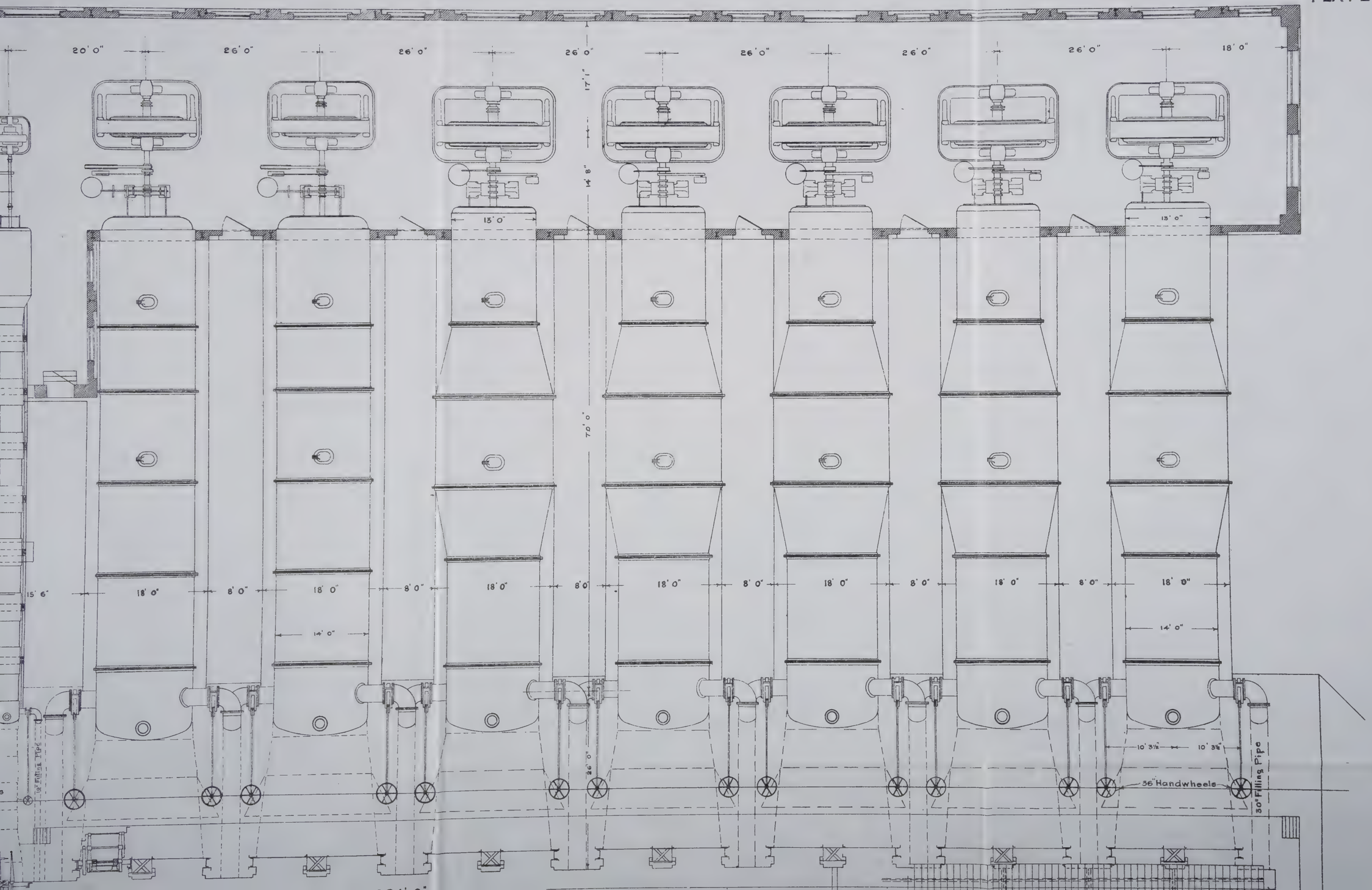
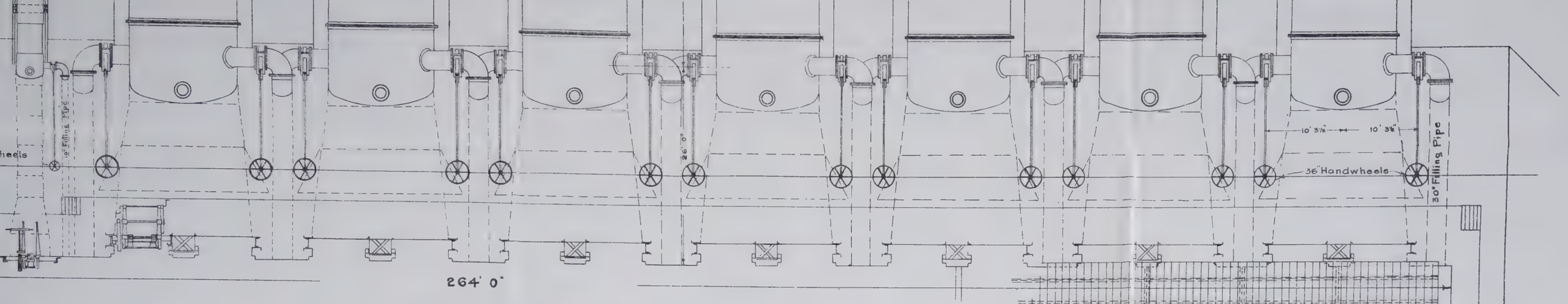

20' 0"
26' 0"
26' 0"
26' 0"
26' 0"
26' 0"
26' 0"
18' 0"
17' 1"
14' 8"
70' 0"
13' 0"
13' 0"
15' 6"
18' 0"
8' 0"
18' 0"
8' 0"
18' 0"
8' 0"
18' 0"
8' 0"
18' 0"
8' 0"
18' 0"
14' 0"
14' 0"
26' 0"
10' 3½"
10' 3½"
36" Handwheels
30" Filling Pipe
30" Filling Pipe

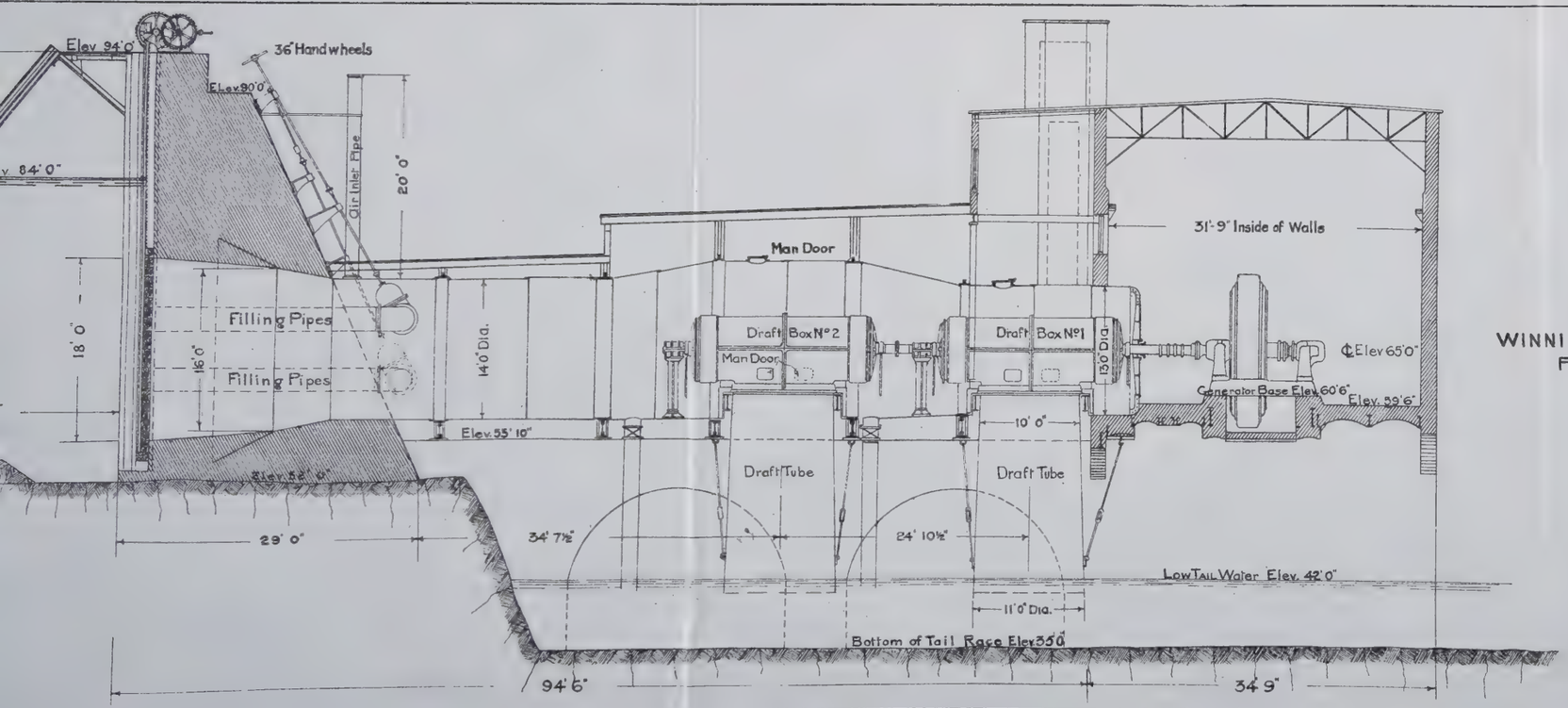
PLATE Nº 10



Department of the Interior Canada
HONOURABLE W. J. ROCHE MINISTER
W. W. CORY C. M. G. DEPUTY MINISTER
Water Power Branch
J. B. CHALLIES SUPERINTENDENT.

WINNIPEG ELECTRIC RAILWAY COMPANY LIMITED
PINAWA CHANNEL DEVELOPMENT
SECTIONAL PLAN OF POWER HOUSE

Scale of Feet



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W CORY, C M. G. DEPUTY MINISTER
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

WINNIPEG ELECTRIC RAILWAY COMPANY LIMITED
PINAWA CHANNEL DEVELOPMENT
TYPICAL SECTION OF POWER HOUSE

Scale of Feet

30' 6½"
30" Filling Pipe
15' 5½"
10' 3⅜"
14" Handwheels
12" Filling Pipe
18" Filling Pipe
15' 0"
15' 0"
26' 0"
26' 0"
264' 0"

Department of the Interior Canada
HONOURABLE W. J. ROCHE MINISTER
W. W. CORY C. M. G. DEPUTY MINISTER
Water Power Branch
J. B. CHALLIES SUPERINTENDENT.

WINNIPEG ELECTRIC RAILWAY COMPANY LIMITED
PINAWA CHANNEL DEVELOPMENT
SECTIONAL PLAN OF POWER HOUSE

Scale of Feet
1 0 5 10 20 30

Elev. 94'0"
36" Handwheels
Elev. 90'0"
Top of Spillway
Elev. 84'0"
Elev. 64'0"
42' 0"
18' 0"
16' 0"
28' 0"
29' 0"
Air Inlet Pipe
20' 0"
Filling Pipes
Filling Pipes
140' Dia.
Elev. 55' 10"
Elev. 55' 4"
Man Door
Draft Box No 2
Man Door
Draft Box No 1
150' Dia.
31'-9" Inside of Walls
Generator Base Elev. 60'6"
10' 0"
Draft Tube
Draft Tube
34' 7⅛"
24' 10⅝"
11' 0" Dia.
Low Tail Water Elev. 42' 0"
Bottom of Tail Race Elev. 35' 0"
94' 6"
34' 9"

UAA-1974-169-9/2/7/6/37-011

RAINY LAKE

FORT FRANCES PLANT
HEAD 24.'

LAKE OF THE WOODS

KENORA AND KEEWATIN PLANTS
HEAD 20'.

LAKE OF THE WOODS

WHITE DOG SITE
HEAD 44.

WINNIPEG MUNICIPAL PLANT
HEAD 45.'

SLAVE FALLS SITE
HEAD 26.'

POWER SURVEYS
NOT COMPETED

PINAWA CHANNEL ENTRANCE

LAC

DALLES RAPIDS

WHITE DOG RAPIDS

FIRST FALL

LAMPREY FALLS

POINT DU BOIS FALLS

EIGHT FOOT FALLS

SLAVE FALLS

STURGEON FALLS

UPPER SEVEN SISTERS FALLS

MIDDLE SEVEN SISTERS FALLS

LOWER SEVEN SISTERS FALLS

WINNIPEG ELECTRIC RAILWAY PLANT
HEAD 39'

PROFILE
OF
PINAWA CHANNEL

LAC DU BONNET

ELEVATION IN FEET ABOVE SEA LEVEL.

DISTANCE IN FEET FROM LAKE WINNIPEG

PROFILE

RAINY LA

Shewing propo

HORIZONTAL

VERTICAL

PLATE Nº11

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

PROFILE OF WINNIPEG RIVER
FROM
RAINY LAKE TO LAKE WINNIPEG
Shewing proposed and existing developments.

SCALES

HORIZONTAL 5 4 3 2 1 0 5 10 15 MILES
VERTICAL 30 20 10 0 30 60 90 FEET

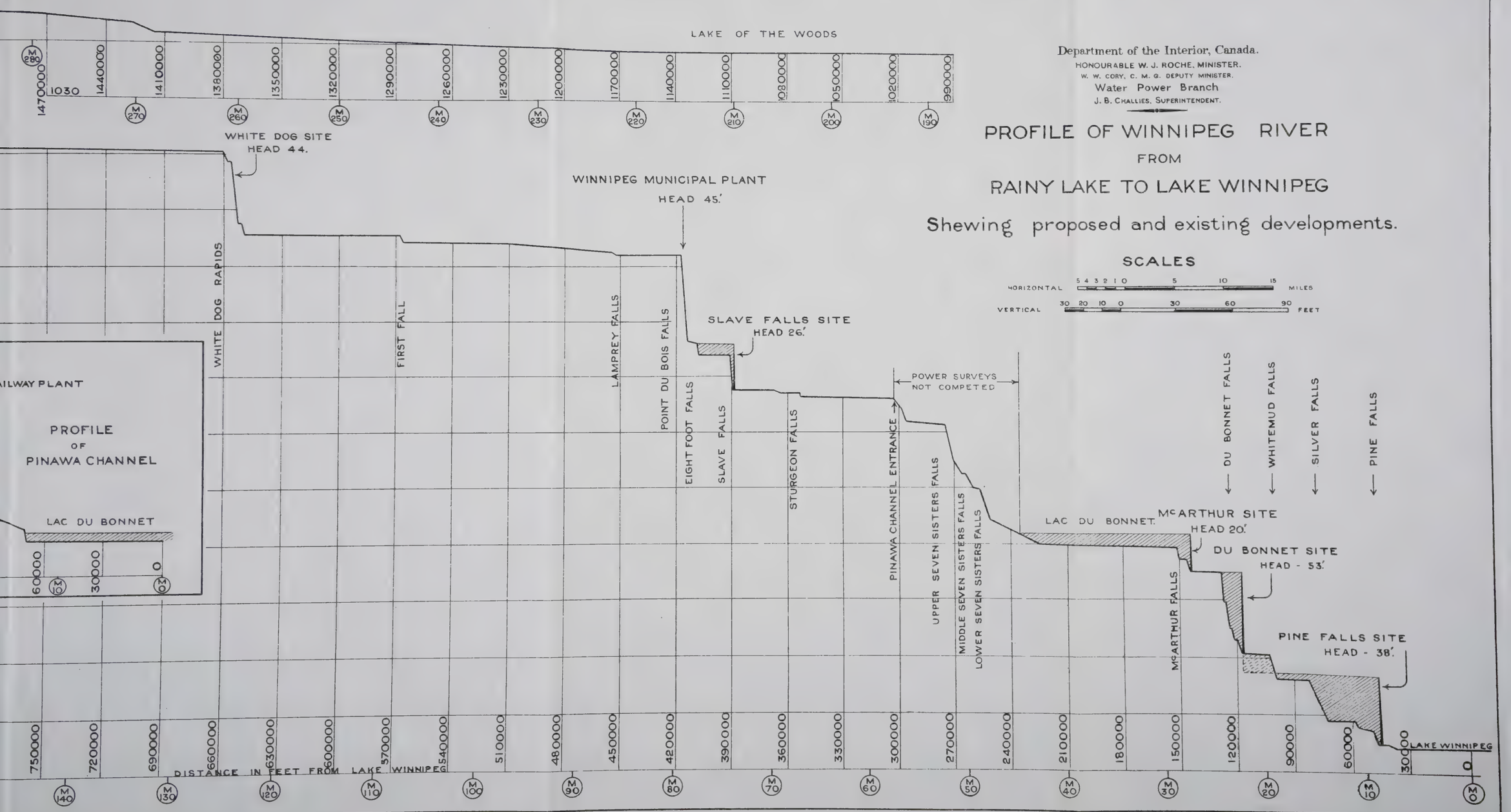
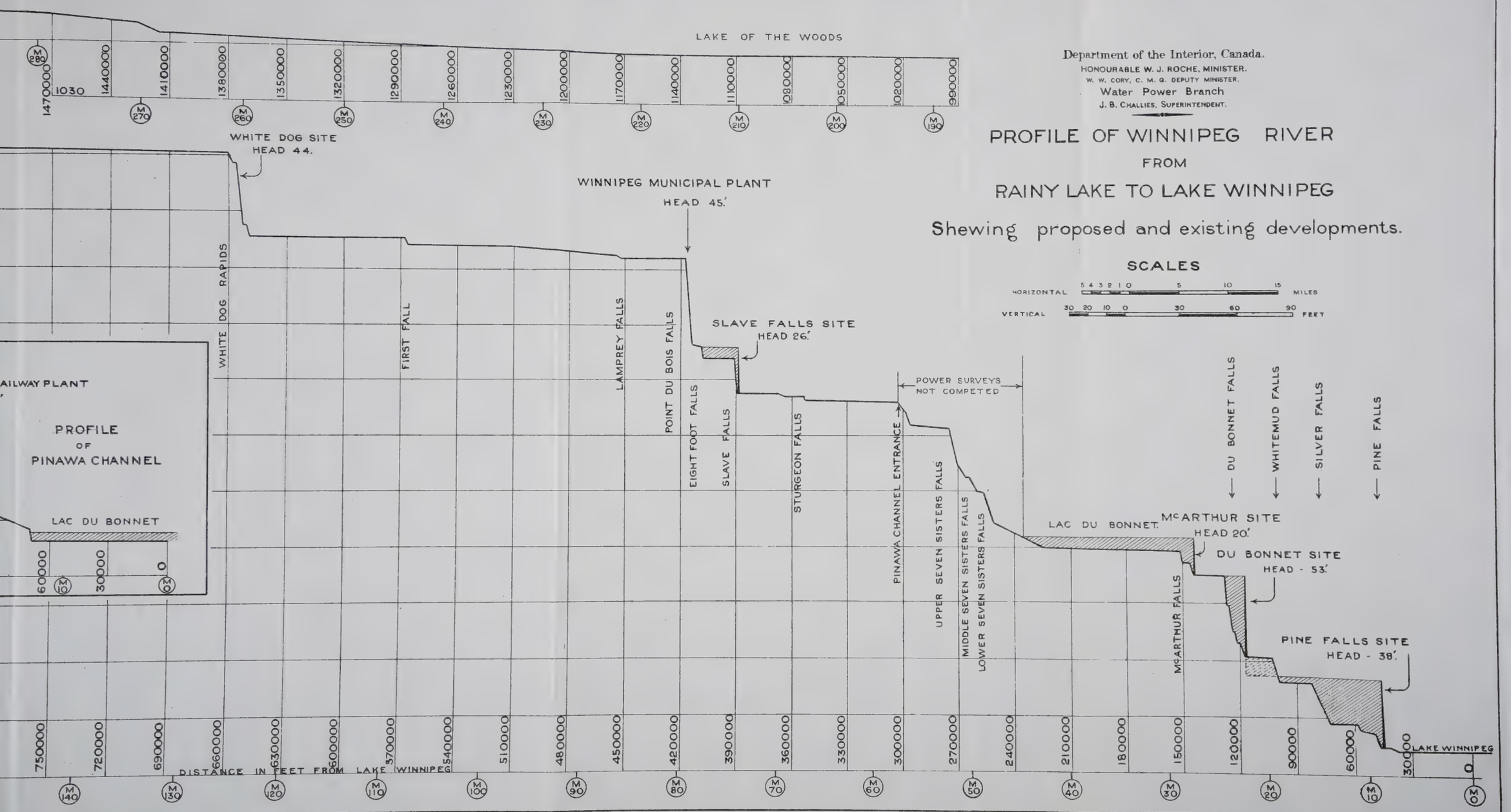


PLATE Nº11

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

PROFILE OF WINNIPEG RIVER
FROM
RAINY LAKE TO LAKE WINNIPEG
Shewing proposed and existing developments.

SCALES
HORIZONTAL 5 4 3 2 1 0 5 10 15 MILES
VERTICAL 30 20 10 0 30 60 90 FEET



Depa
HC
W

PROFILE

RAINY LA

Shewing propo

HORIZONTAL
VERTICAL 30 20

RAINY LAKE
M 320
FORT FRANCES PLANT
HEAD 24'
1060
1680000
1650000
M 310
1620000
1590000
M 300
1560000
M 290
1500000
M 280
1470000
1030
1440000
1410000
1380000
1350000
1320000
1290000
1260000
1230000
1200000
1170000
1140000
1110000
1080000
1050000
1020000
990000
LAKE OF THE WOODS
M 270
M 260
M 250
M 240
M 230
M 220
M 210
M 200
M 190
LAKE OF THE WOODS
KENORA AND KEEWATIN PLANTS
HEAD 20'.
WHITE DOG SITE
HEAD 44.
WINNIPEG MUNICIPAL PLANT
HEAD 45'.
SLAVE FALLS SITE
HEAD 26'.
DALLES RAPIDS
WHITE DOG RAPIDS
FIRST FALL
LAMPREY FALLS
POINT DU BOIS FALLS
EIGHT FOOT FALLS
SLAVE FALLS
STURGEON FALLS
PINAWA CHANNEL ENTRANCE
UPPER SEVEN SISTERS FALLS
MIDDLE SEVEN SISTERS FALLS
LOWER SEVEN SISTERS FALLS
LAC D
POWER SURVEYS
NOT COMPETED
ELEVATION IN FEET ABOVE SEA LEVEL.
1,030
1,000
970
940
910
880
850
820
790
760
730
700
960000
930000
900000
870000
840000
810000
780000
750000
720000
690000
660000
630000
600000
570000
540000
510000
480000
450000
420000
390000
360000
330000
300000
270000
240000
210000
M 180
M 170
M 160
M 150
M 140
M 130
M 120
M 110
M 100
M 90
M 80
M 70
M 60
M 50
M 40
DISTANCE IN FEET FROM LAKE WINNIPEG

WINNIPEG ELECTRIC RAILWAY PLANT
HEAD 39'
PROFILE
OF
PINAWA CHANNEL
LAC DU BONNET
890
860
830
800
180000
150000
120000
90000
60000
30000
0
M 30
M 20
M 10
M 0

UAA-1974-169-9/2/7/6/37-012

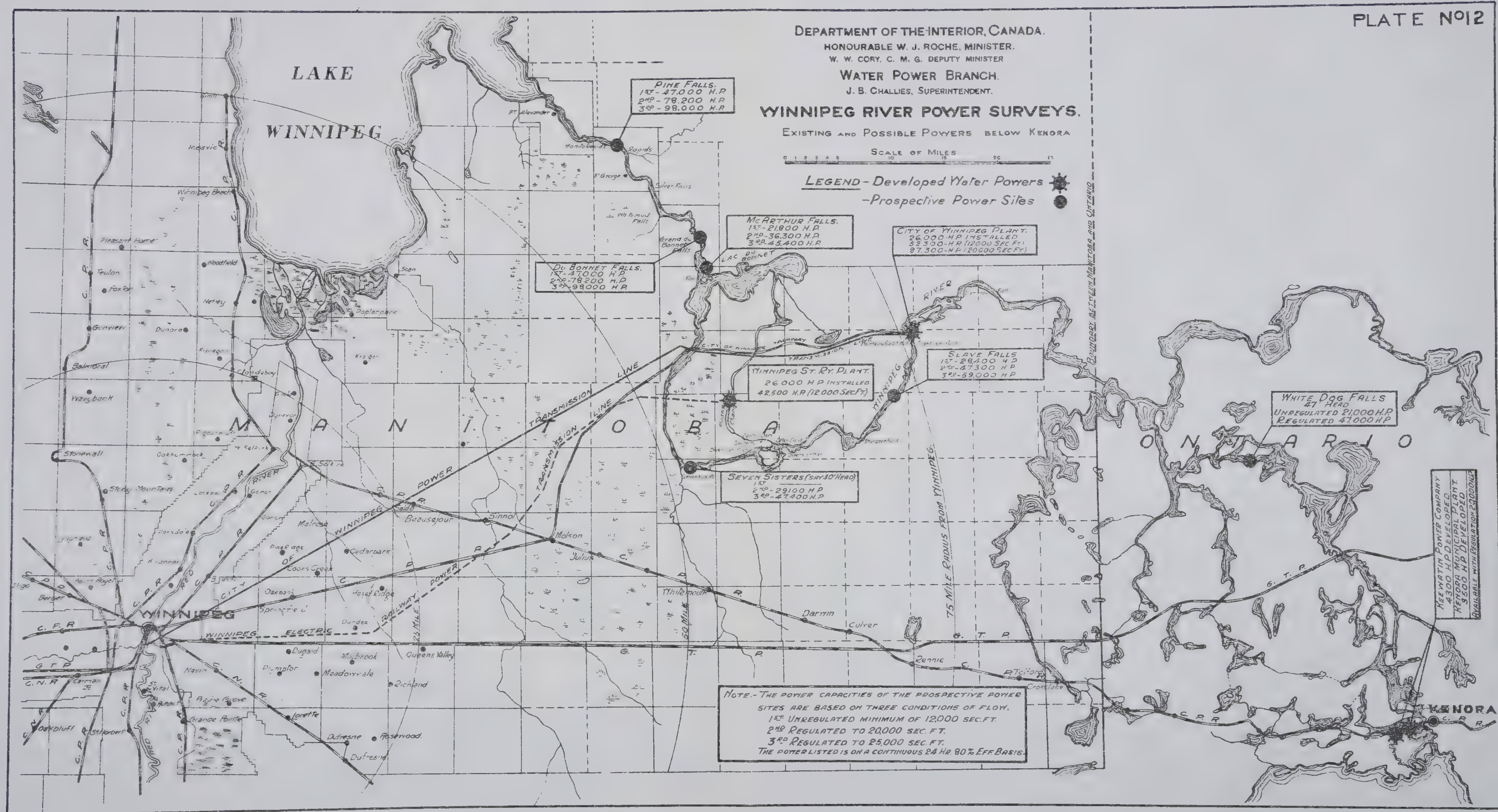


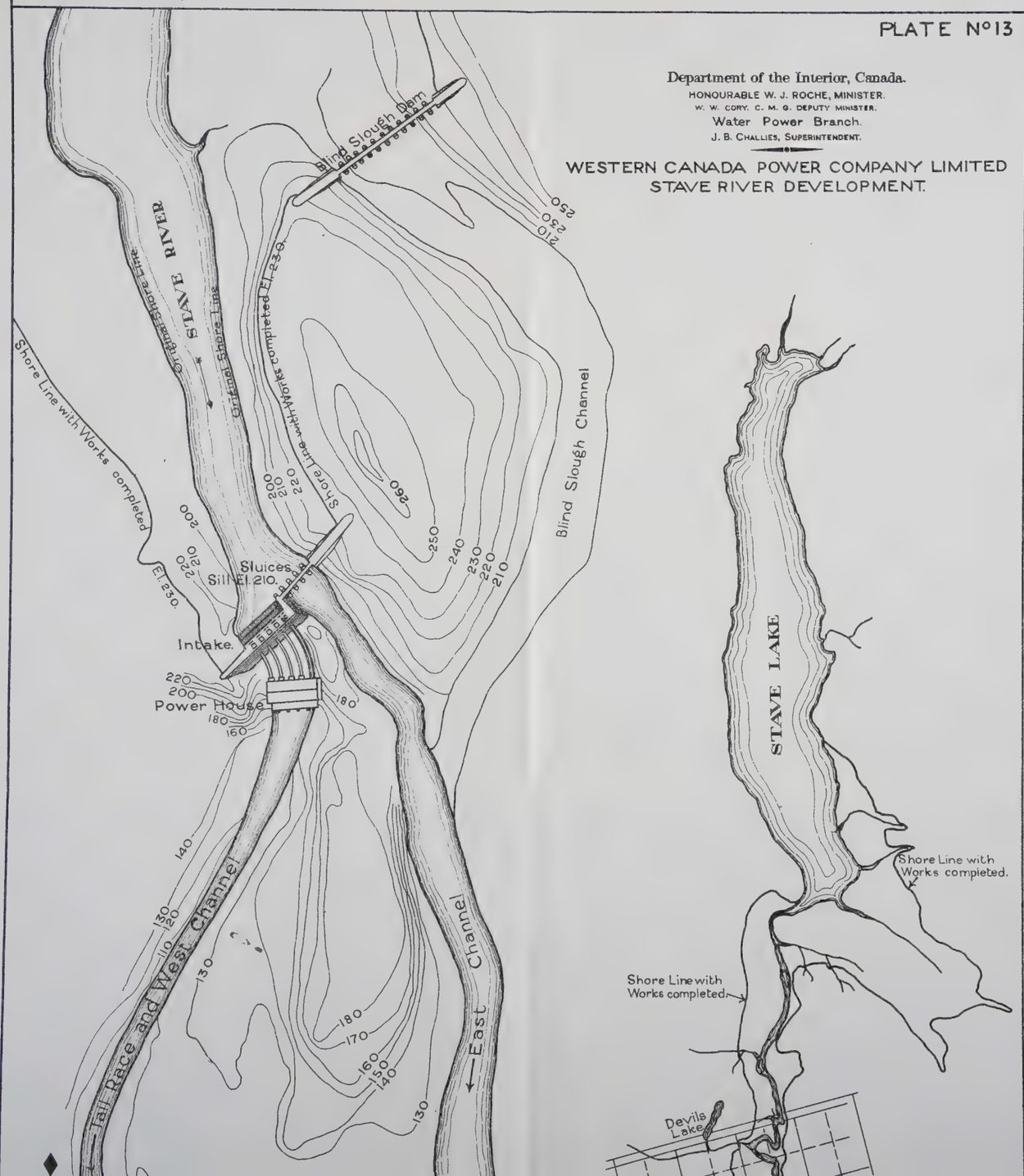
PLATE No 12
DEPARTMENT OF THE INTERIOR, CANADA.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER
WATER POWER BRANCH.
J. B. CHALLIES, SUPERINTENDENT.
WINNIPEG RIVER POWER SURVEYS.
EXISTING AND POSSIBLE POWERS BELOW KENORA
SCALE OF MILES
LEGEND - Developed Water Powers
- Prospective Power Sites
PINE FALLS. 1ST - 47,000 H.P 2ND - 78,200 H.P 3RD - 98,000 H.P
McARTHUR FALLS. 1ST - 21,800 H.P. 2ND - 36,300 H.P. 3RD - 45,400 H.P.
DU BONNET FALLS. 1ST - 47,000 H.P. 2ND - 78,200 H.P. 3RD - 98,000 H.P.
CITY OF WINNIPEG PLANT. 26,000 H.P INSTALLED 52,300 H.P (12000 SEC FT) 87,300 H.P (20000 SEC FT)
WINNIPEG ST. RY. PLANT. 26,000 H.P INSTALLED 42,500 H.P (12,000 SEC FT)
SLAVE FALLS 1ST - 28,400 H.P 2ND - 47,300 H.P 3RD - 59,000 H.P
SEVEN SISTERS (SAY 40' HEAD) 1ST 2ND - 29,100 H.P 3RD - 47,400 H.P
WHITE DOG FALLS 47' HEAD UNREGULATED 21,000 H.P REGULATED 47,000 H.P
KEEWATIN POWER COMPANY 4300 H.P DEVELOPED
KENORA MUNICIPAL PLANT 3500 H.P DEVELOPED
AVAILABLE WITH REGULATION 22000 H.P
NOTE. - THE POWER CAPACITIES OF THE PROSPECTIVE POWER SITES ARE BASED ON THREE CONDITIONS OF FLOW.
1ST UNREGULATED MINIMUM OF 12,000 SEC. FT.
2ND REGULATED TO 20,000 SEC. FT.
3RD REGULATED TO 25,000 SEC. FT.
THE POWER LISTED IS ON A CONTINUOUS 24 HR. 80% EFF. BASIS.
LAKE WINNIPEG
MANITOBA
ONTARIO
WINNIPEG
KENORA
LAC DU BONNET
WINNIPEG RIVER
TRANSMISSION LINE
WINNIPEG RIVER POWER
CITY OF WINNIPEG TRAMWAY
WINNIPEG ELECTRIC RAILWAY POWER
75 MILE RADIUS FROM WINNIPEG
50 MILE
BOUNDARY BETWEEN MANITOBA AND ONTARIO
G. T. P.
C. P. R.
C. N. R.
Ft. Alexander
Rapids
St. George
Silver Falls
Whitemud Falls
Grand du Bonnet Falls
Selkirk
Stonewall
Beausejour
Molson
Julius
Sinnot
Whitemouth
Darwin
Culver
Rennie
Cross Lake
Dufresne
Rosewood
Lorette
Richland
Meadowvale
Queens Valley
Cedarpark
Oakbank
Springfield
Teulon
Gunton
Balmoral
Pleasant Home
Woodfield
Winnipeg Beach
Gimli
Dunara

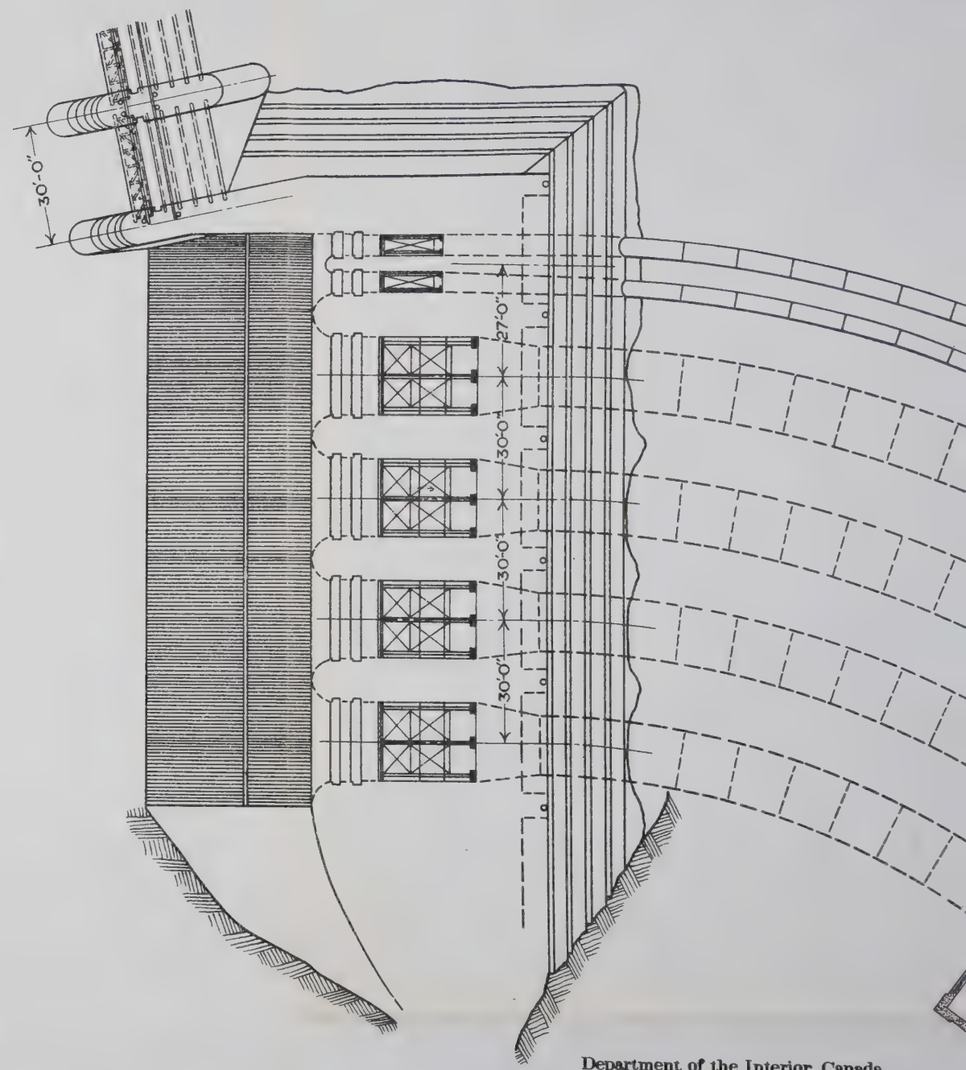
UAA-1974-169-9/2/7/6/37-013

PLATE Nº13

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch.
J. B. CHALLIES, SUPERINTENDENT.

WESTERN CANADA POWER COMPANY LIMITED
STAVE RIVER DEVELOPMENT.





Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES. SUPERINTENDENT.

WESTERN CANADA POWER COMPANY LIMI
STAVE RIVER DEVELOPMENT
GENERAL PLAN
Scale of feet.
10 5 0 10 20 30 40 50

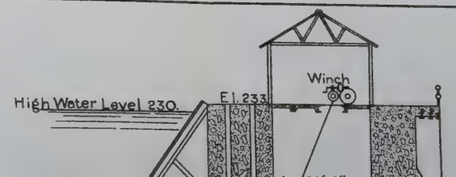


PLATE Nº13

ment of the Interior, Canada.
OURABLE W. J. ROCHE, MINISTER.
V. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch.
J. B. CHALLIES, SUPERINTENDENT.

ADA POWER COMPANY LIMITED
RIVER DEVELOPMENT.

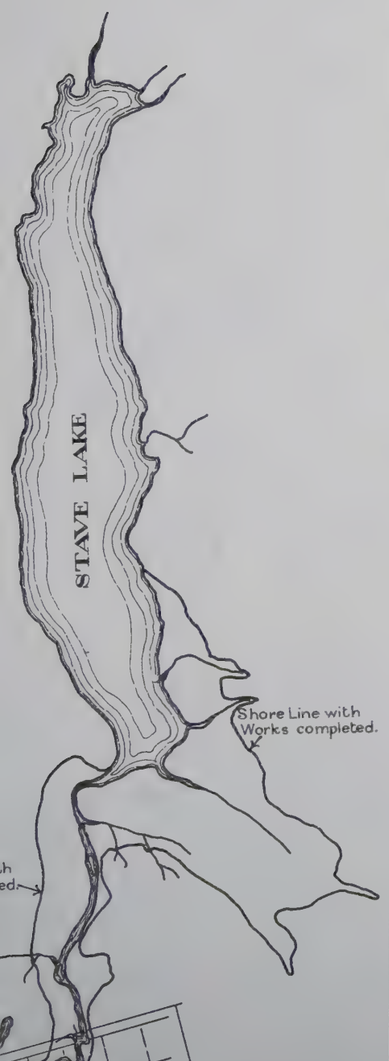
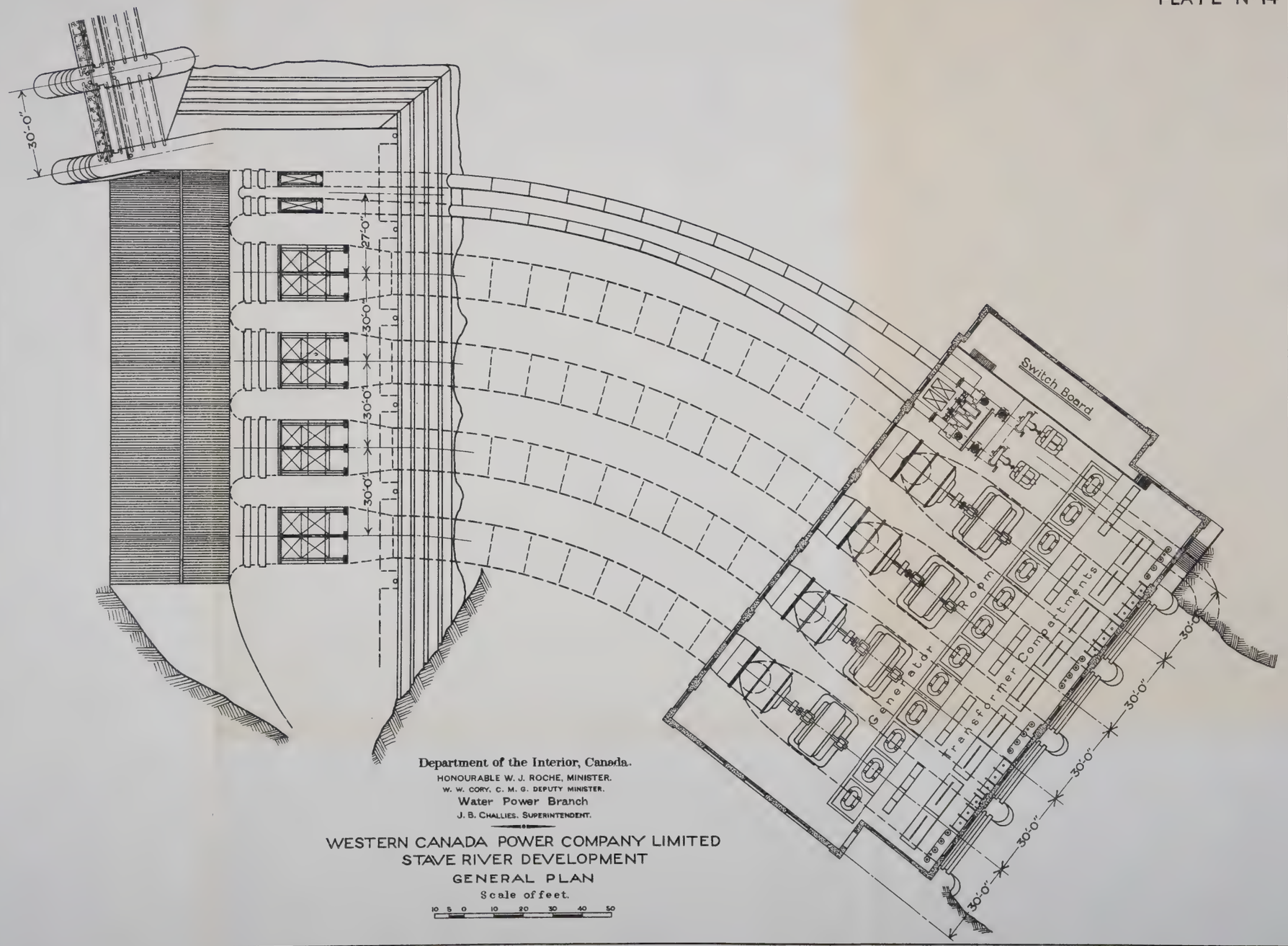


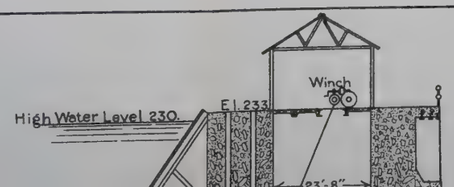
PLATE Nº14

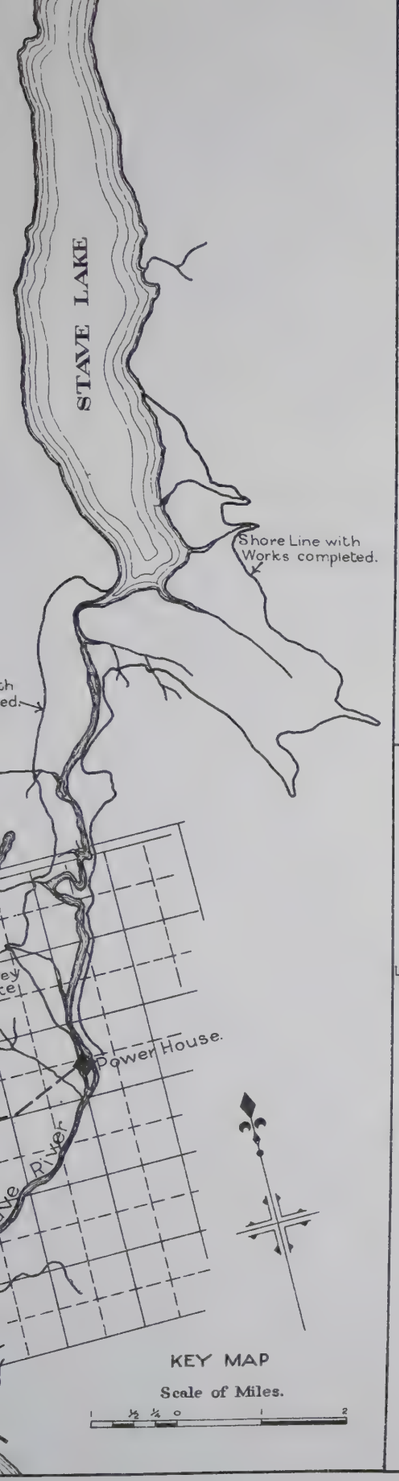


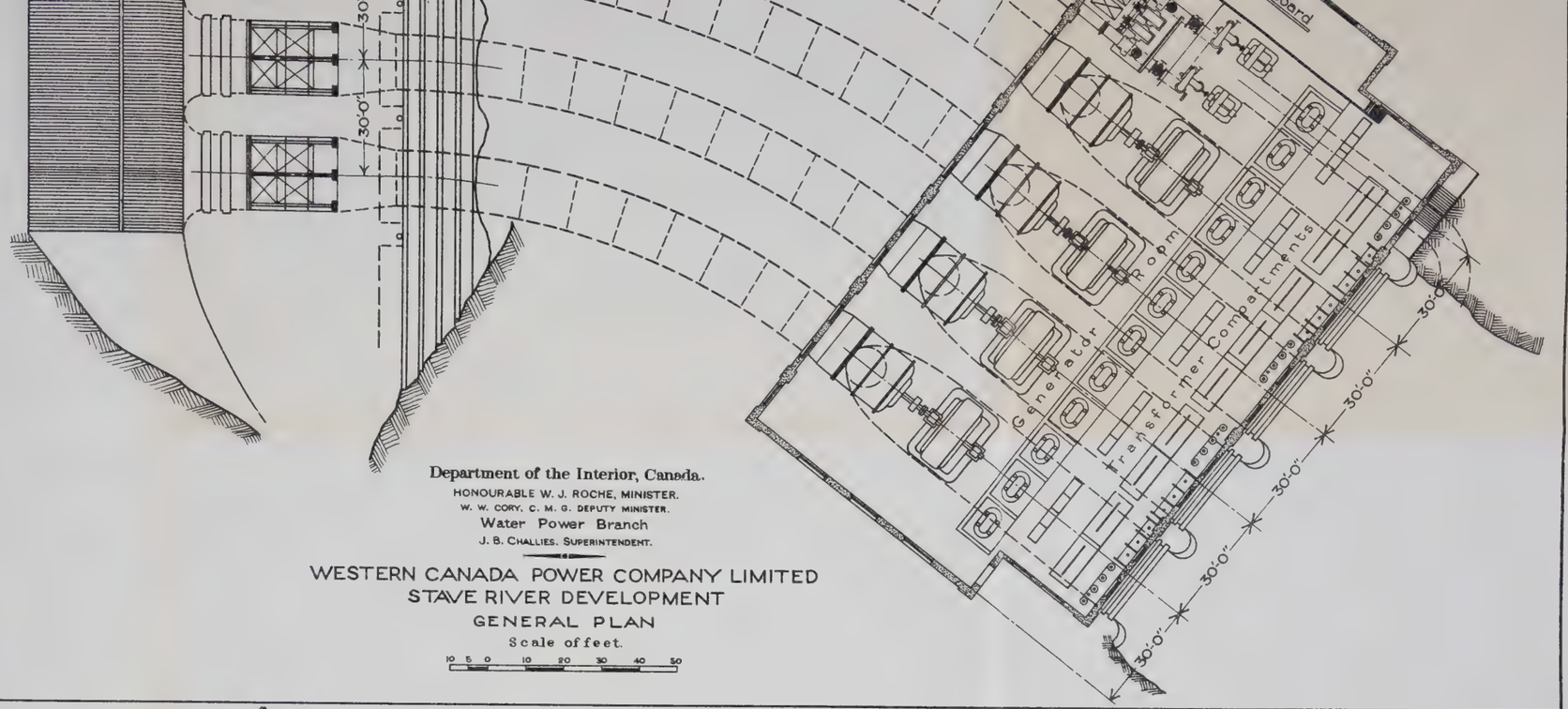
Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES. SUPERINTENDENT.

WESTERN CANADA POWER COMPANY LIMITED
STAVE RIVER DEVELOPMENT
GENERAL PLAN
Scale of feet.
10 5 0 10 20 30 40 50

PLATE Nº15







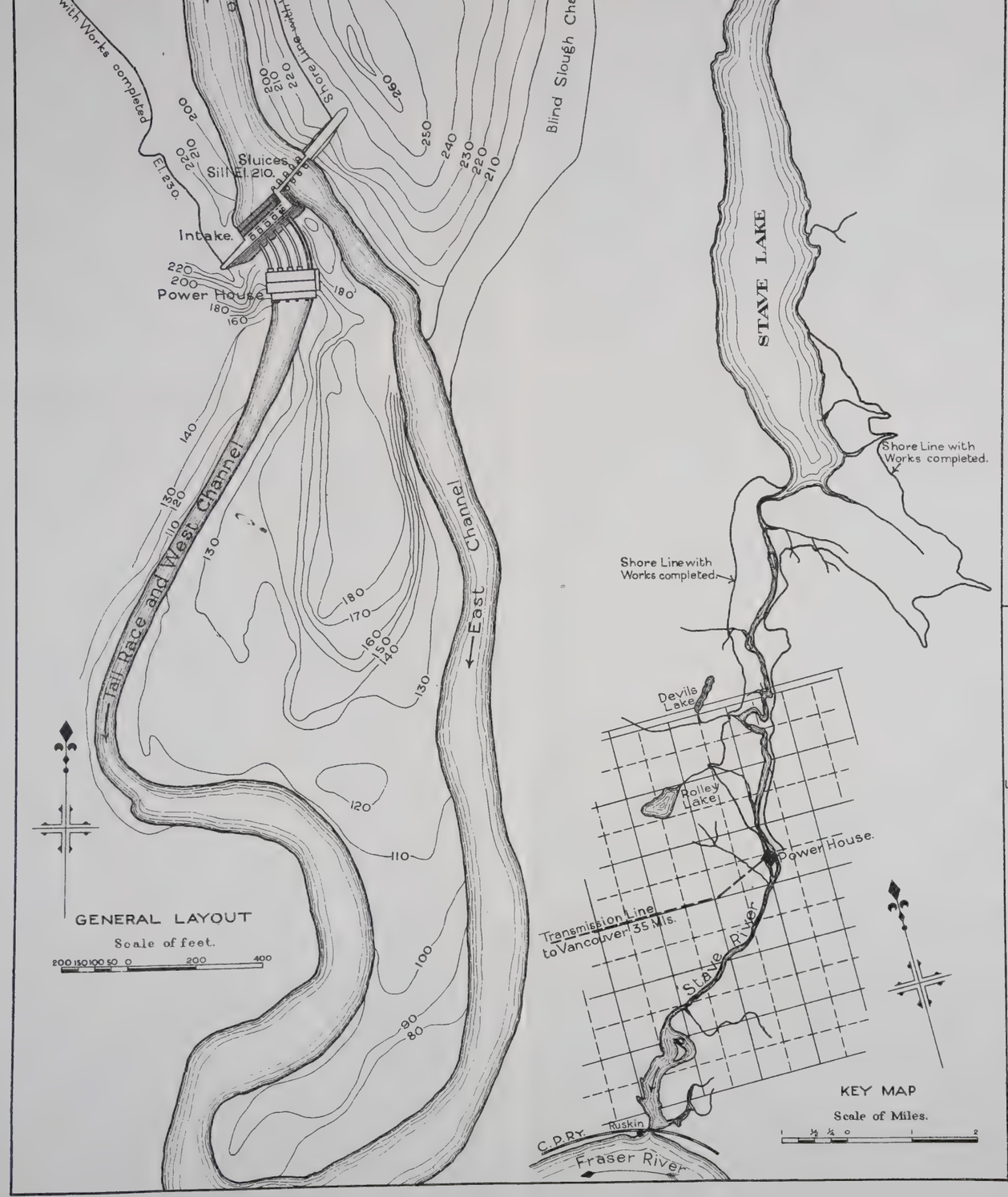
Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES. SUPERINTENDENT.

WESTERN CANADA POWER COMPANY LIMITED
STAVE RIVER DEVELOPMENT
GENERAL PLAN
Scale of feet.
10 5 0 10 20 30 40 50

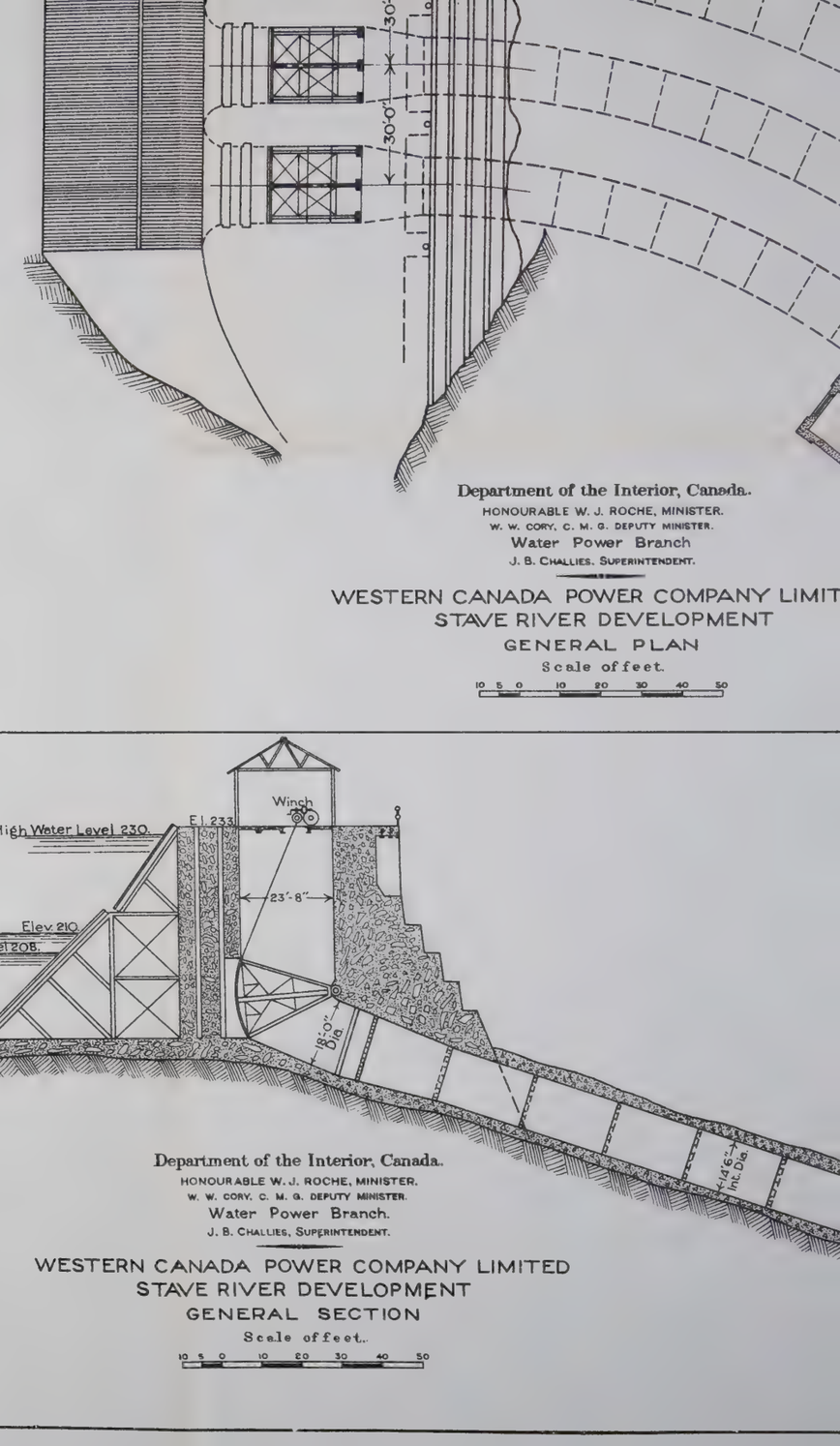
PLATE No 15

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch.
J. B. CHALLIES, SUPERINTENDENT.

WESTERN CANADA POWER COMPANY LIMITED
STAVE RIVER DEVELOPMENT
GENERAL SECTION
Scale of feet.
10 5 0 10 20 30 40 50


with Works completed
El. 230.
Sluices
Sill El. 210.
Intake.
Power House
Shore Line with Works completed
Blind Slough Channel
Tail Race and West Channel
East Channel
GENERAL LAYOUT
Scale of feet.
200 150 100 50 0 200 400

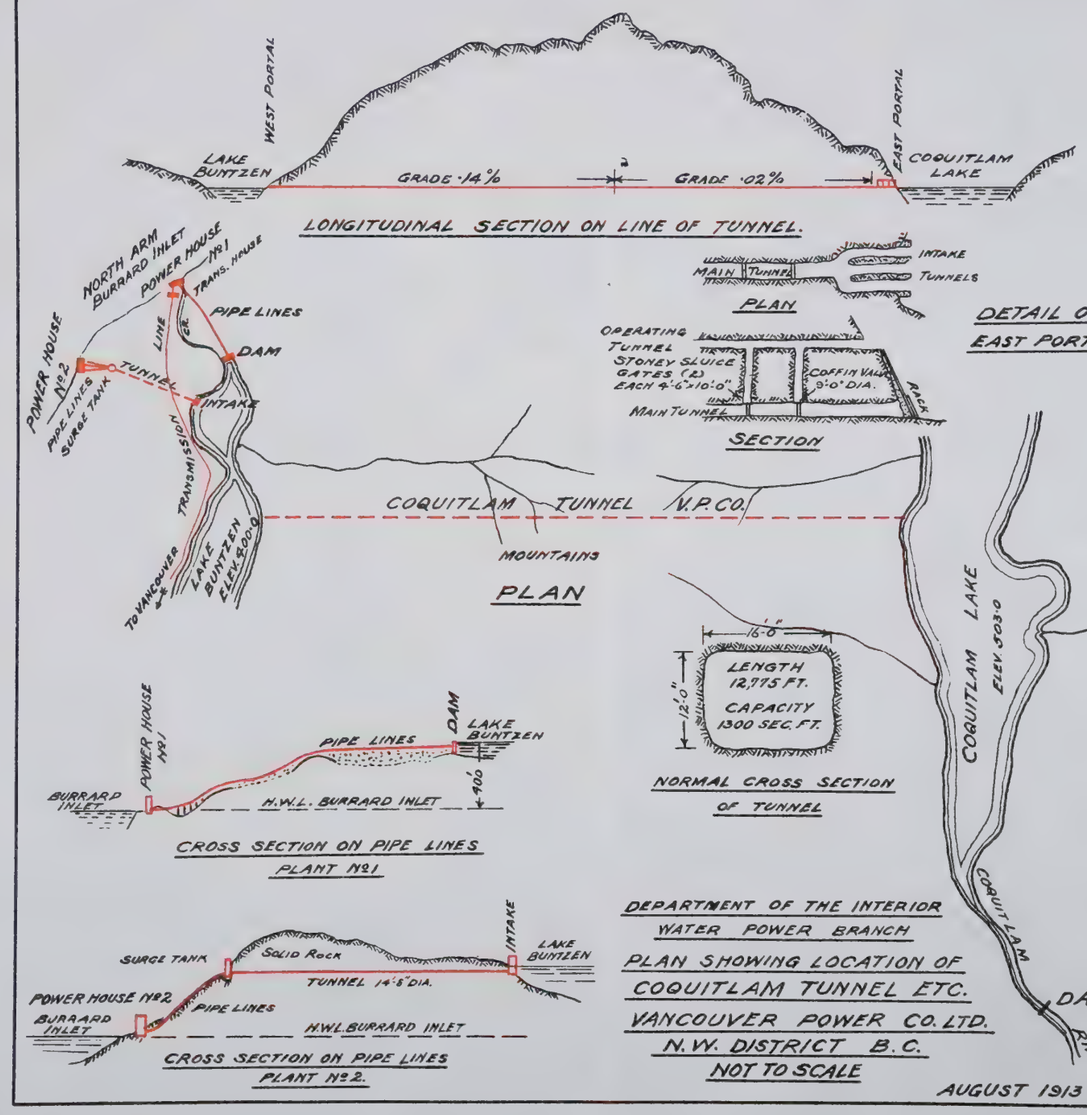
STAVE LAKE
Shore Line with Works completed.
Shore Line with Works completed.
Devils Lake
Rolley Lake
Power House.
Transmission Line to Vancouver 35 Mls.
St. Mary's River
C.P.Ry.
Ruskin
Fraser River
KEY MAP
Scale of Miles.
1 ½ ½ 0 1 2


30'-0"
30'-0"
Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.
WESTERN CANADA POWER COMPANY LIMIT
STAVE RIVER DEVELOPMENT
GENERAL PLAN
Scale of feet.
10 5 0 10 20 30 40 50

Winch
El. 233
High Water Level 230.
23'-8"
Elev. 210
Low Water Level 205.
Elev. 195
18'-0" Dia
146'-0" Int. Dia
Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch.
J. B. CHALLIES, SUPERINTENDENT.
WESTERN CANADA POWER COMPANY LIMITED
STAVE RIVER DEVELOPMENT
GENERAL SECTION
Scale of feet.
10 5 0 10 20 30 40 50

UAA-1974-169-9/2/7/6/37-015

PLATE N°16



DEPARTMENT OF THE INTERIOR
WATER POWER BRANCH

PLAN SHOWING LOCATION OF COQUITLAM TUNNEL ETC.
VANCOUVER POWER CO. LTD.
N.W. DISTRICT B.C.
NOT TO SCALE

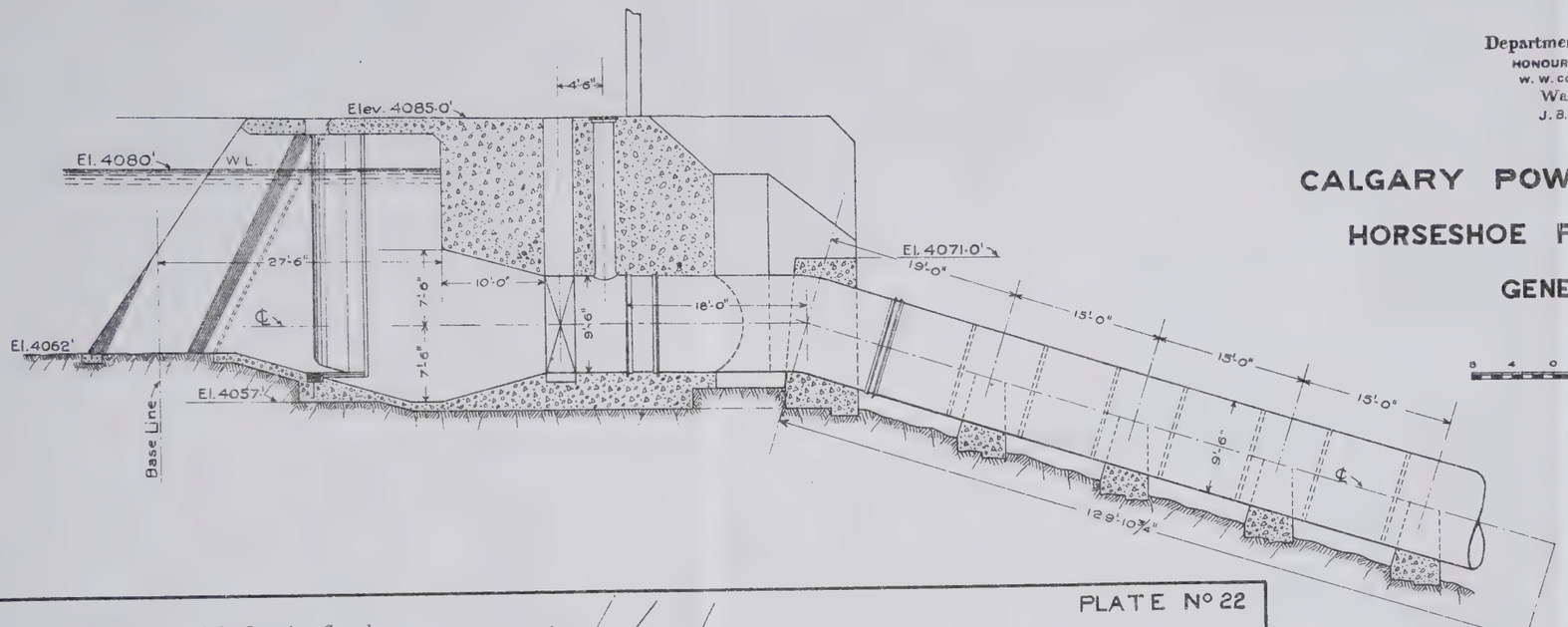
AUGUST 1913

UAA-1974-169-9/2/7/6/37-015

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
HORSESHOE FALLS DEVELOPMENT
GENERAL SECTION

Scale of feet
8 4 0 8 16 24



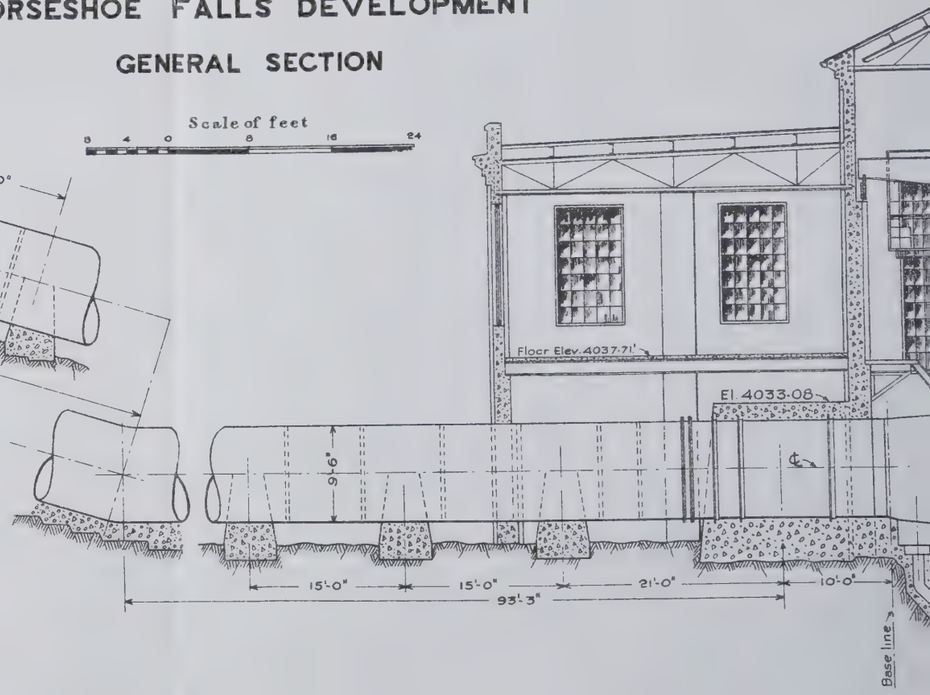


PLATE Nº 22

Department of the Interior, Canada
HONOURABLE W. J. ROCHE, MINISTER
W. W. CORY, C. M. G. DEPUTY MINISTER
Water Power Branch
J. B. CHALLIES SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
HORSESHOE FALLS DEVELOPMENT
PLAN OF INTAKE

Scale of Feet
10 0 10 20 30

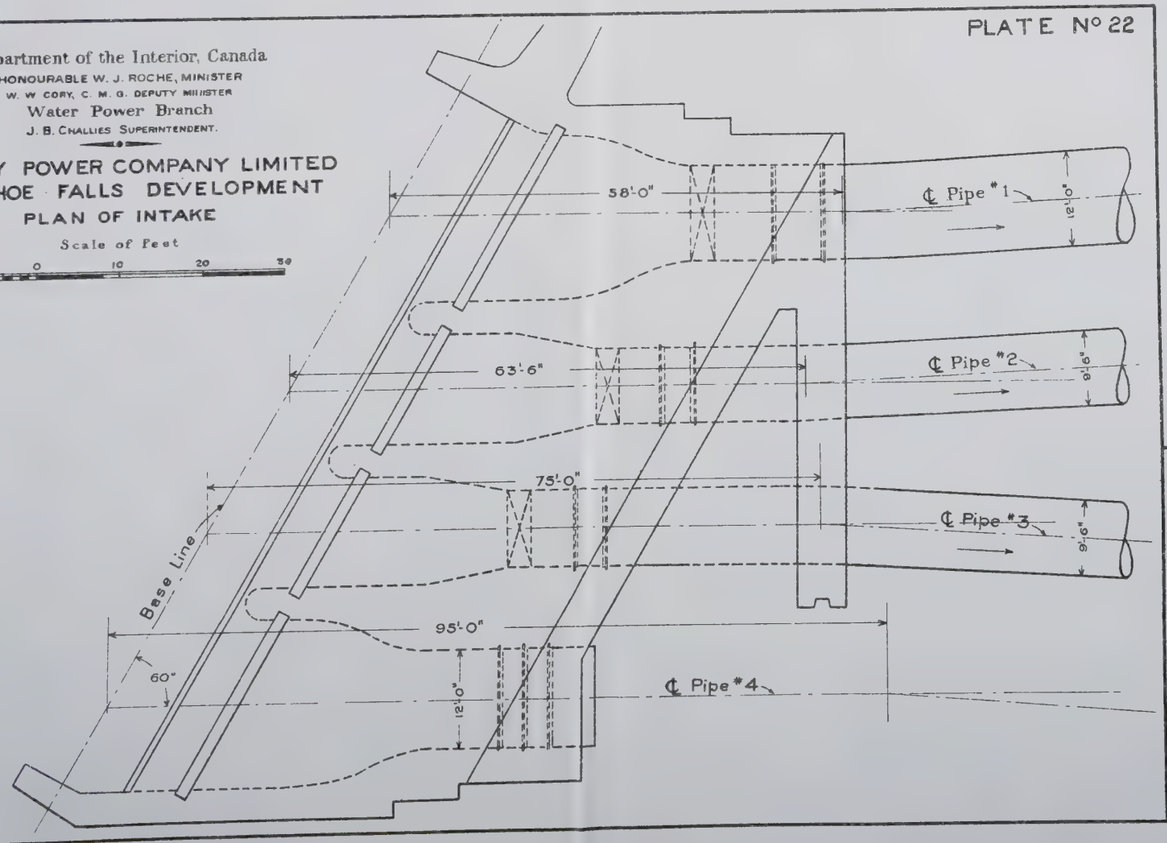


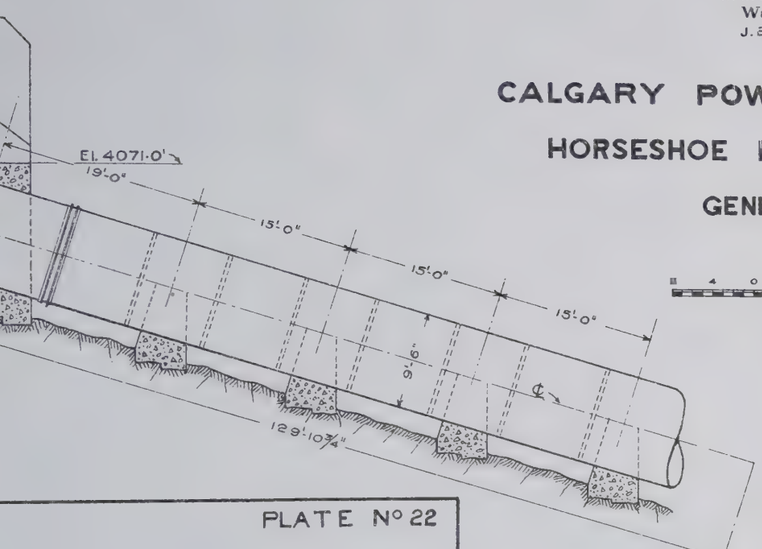
PLATE Nº19

PLATE Nº21

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
HORSESHOE FALLS DEVELOPMENT
GENERAL SECTION

Scale of feet
4 0 8 16 24



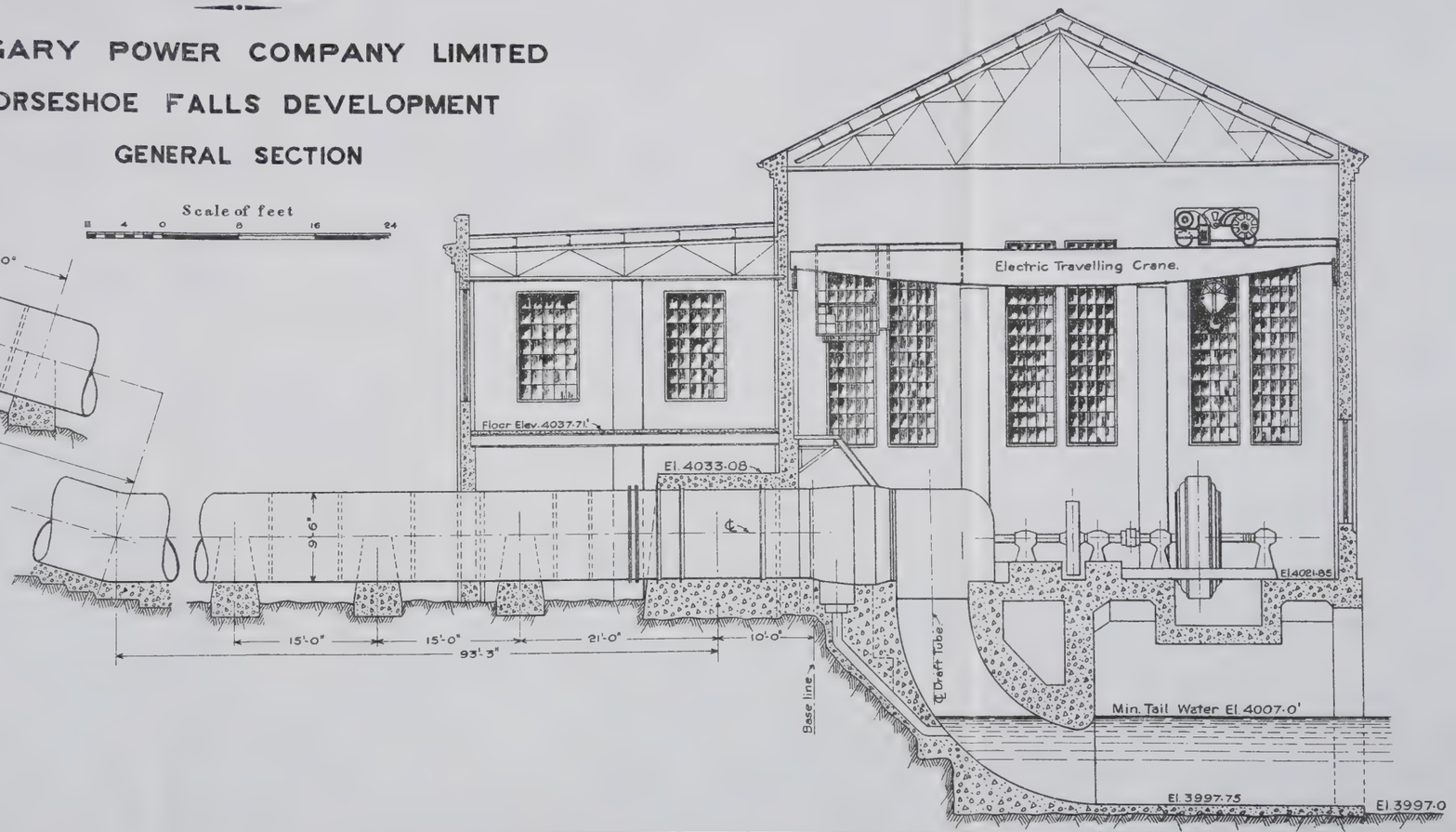


PLATE Nº 22

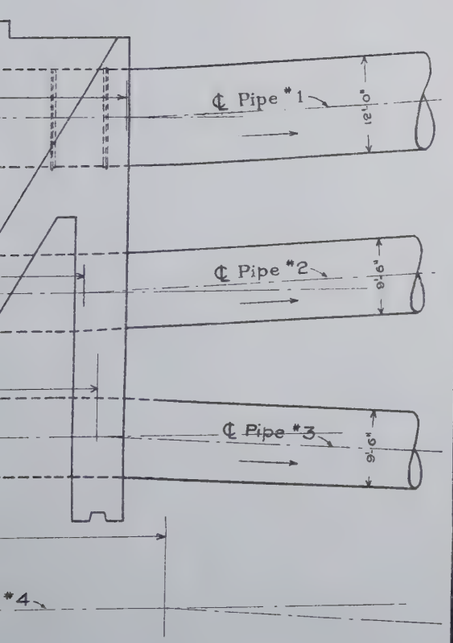
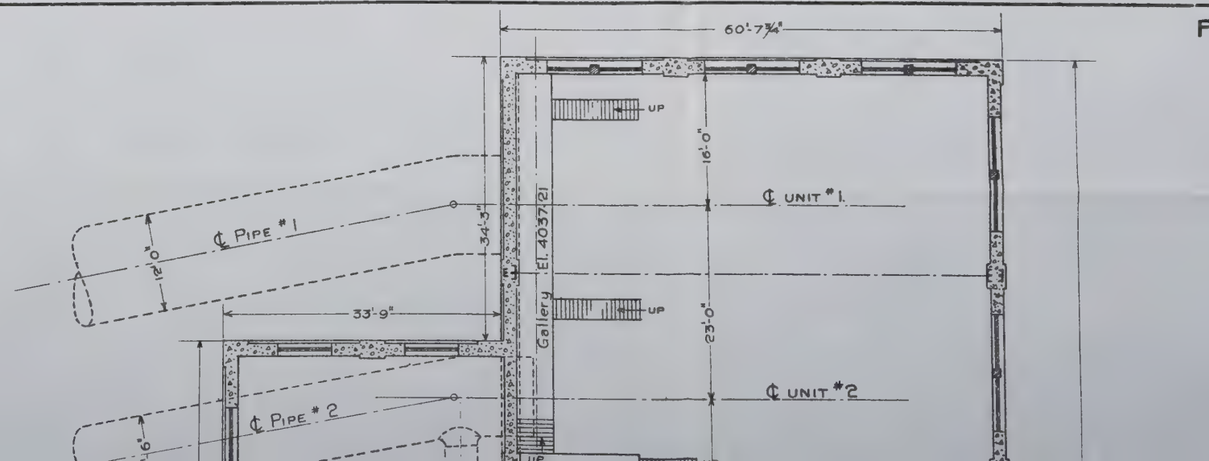
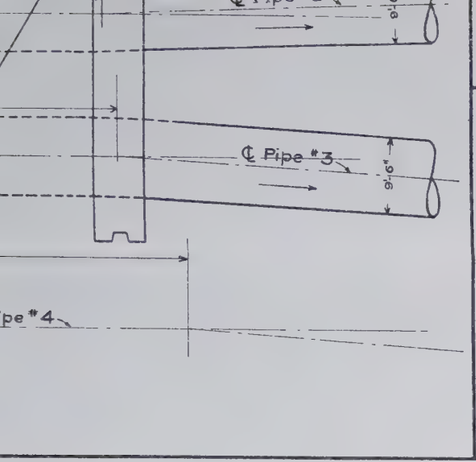


PLATE Nº19

Transmission Line
to Exshaw

PLATE Nº20





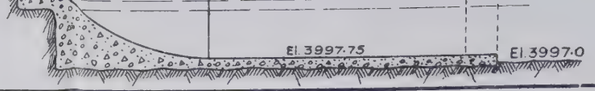
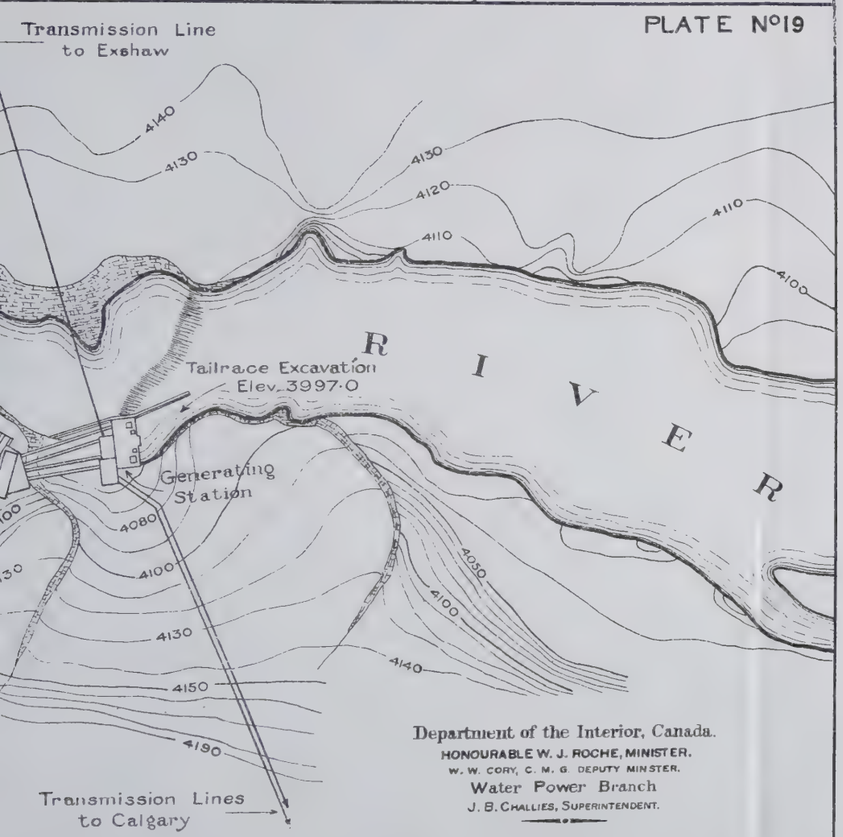


PLATE Nº19



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
HORSESHOE FALLS DEVELOPMENT
GENERAL LAYOUT.

Scale of feet.

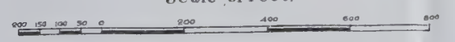
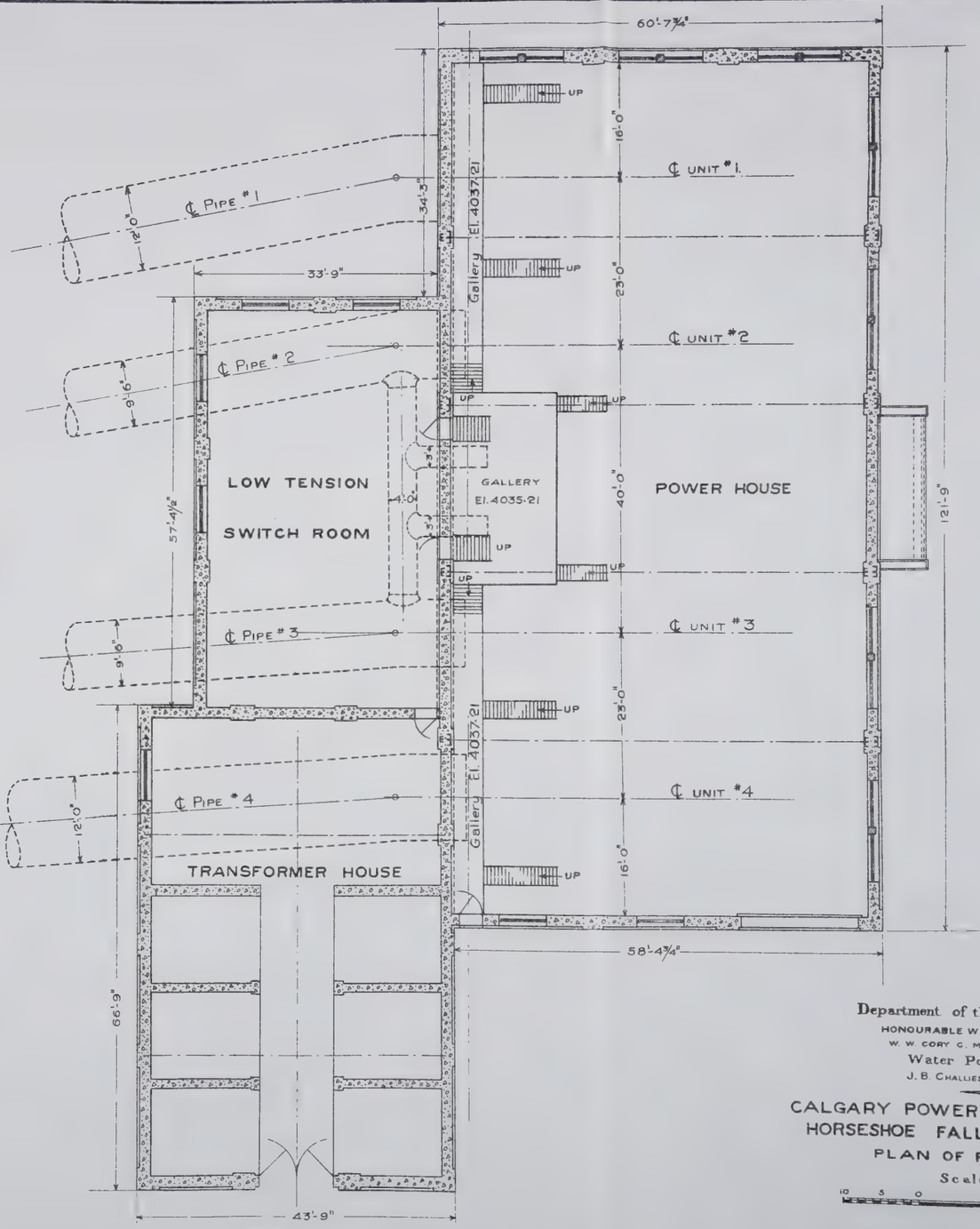


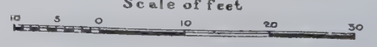
PLATE Nº20



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER
W. W. CORY C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES SUPERINTENDENT.

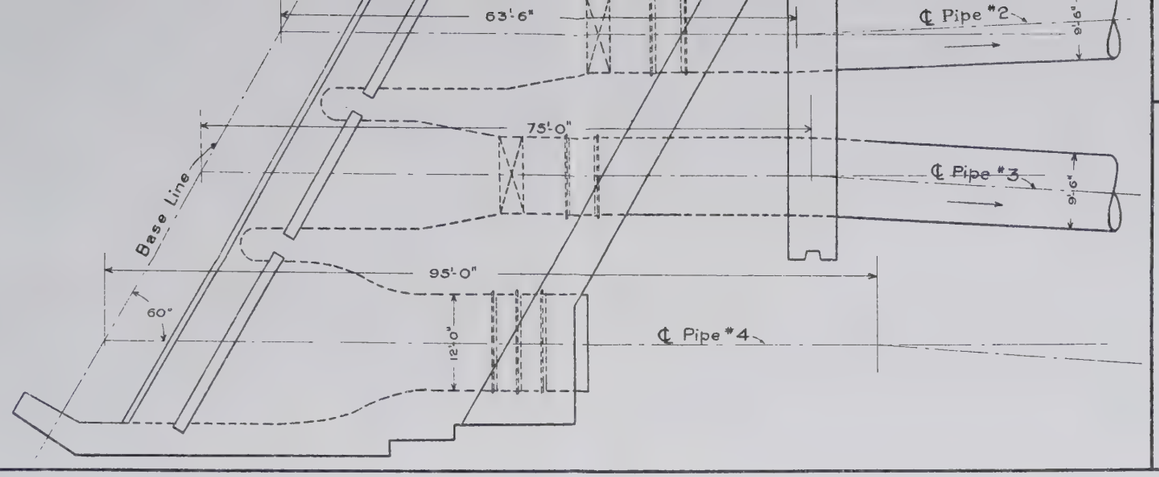
CALGARY POWER COMPANY LIMITED
HORSESHOE FALLS DEVELOPMENT
PLAN OF POWER HOUSE.

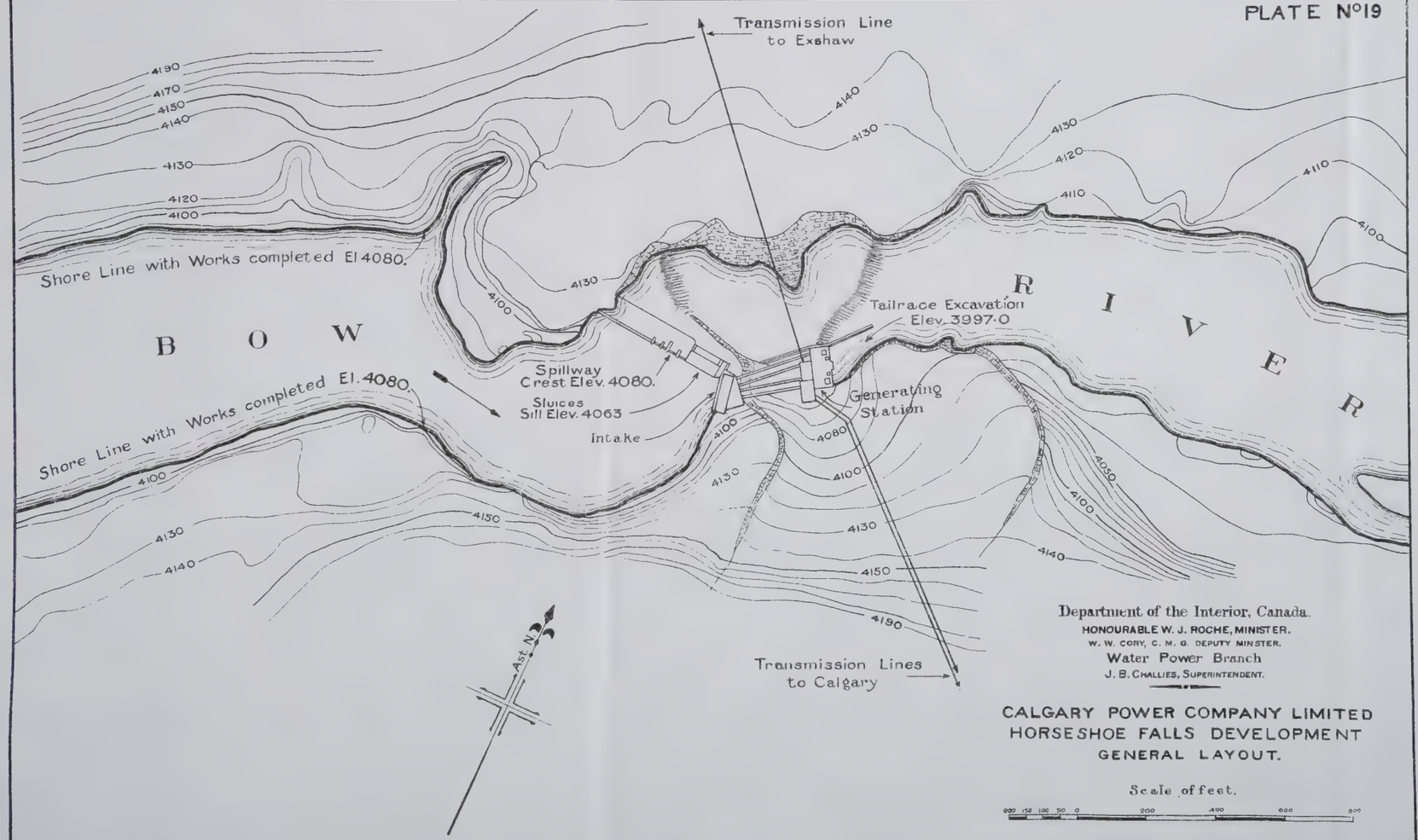
Scale of feet



F.W.S.

PLATE Nº19

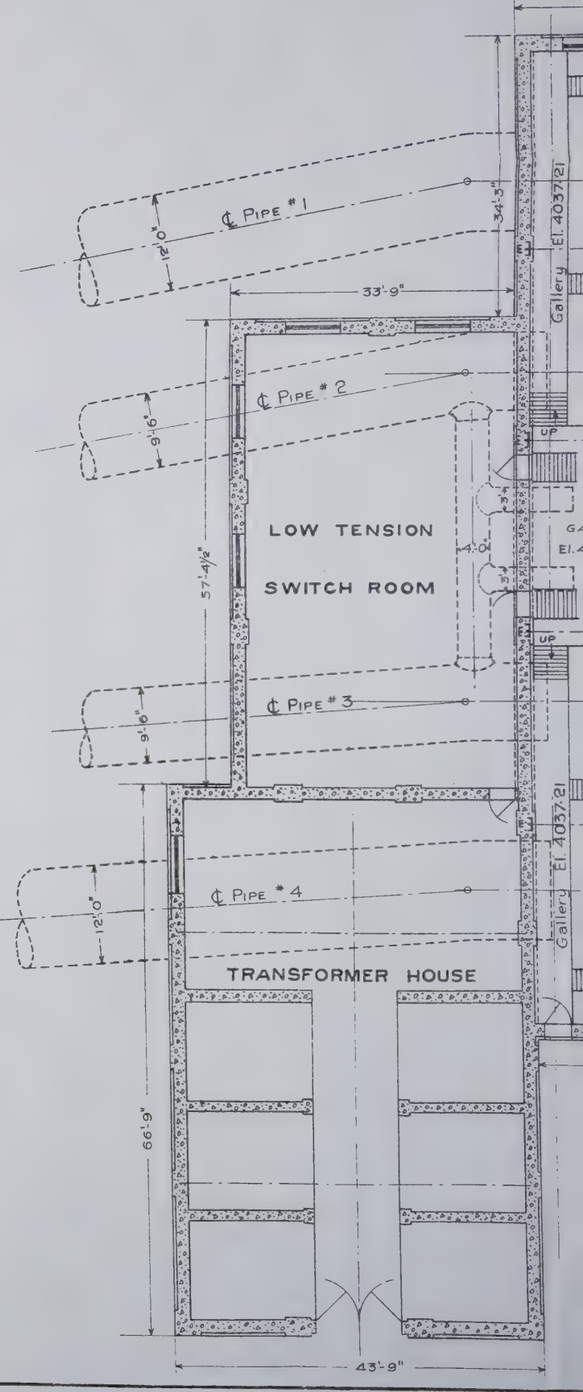




Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

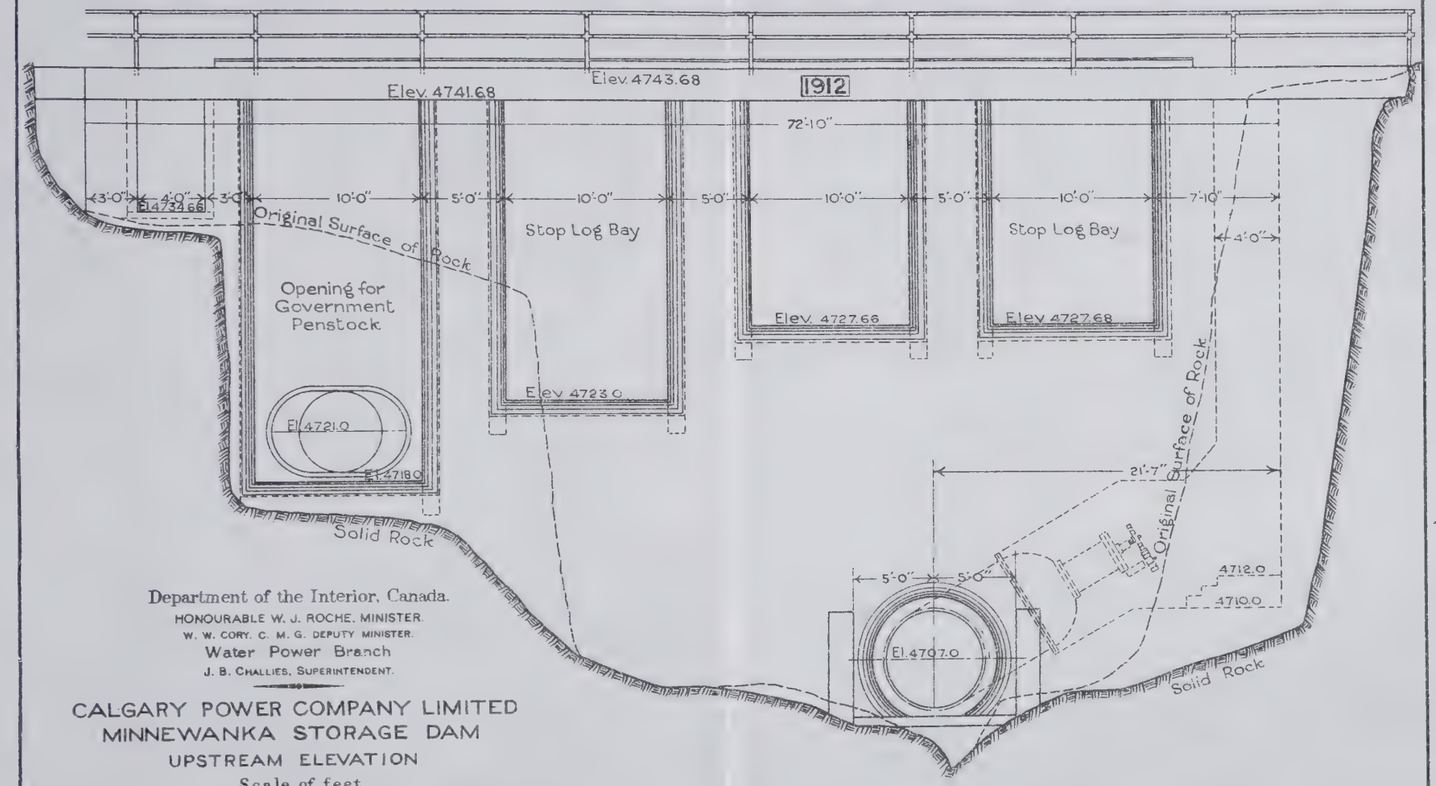
CALGARY POWER COMPANY LIMITED
HORSESHOE FALLS DEVELOPMENT
GENERAL LAYOUT.

Scale of feet.



UAA-1974-169-9/2/7/6/37-016

PLATE Nº24.



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
MINNEWANKA STORAGE DAM
UPSTREAM ELEVATION
Scale of feet.
5 4 3 2 1 0 5 10 15

PLATE Nº25.

PLATE Nº 24.

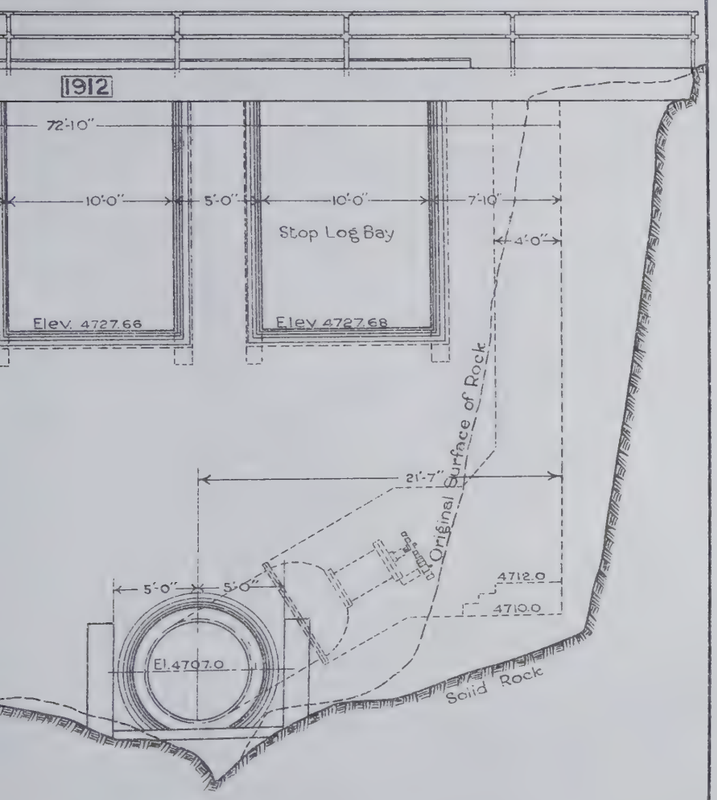


PLATE Nº 25.

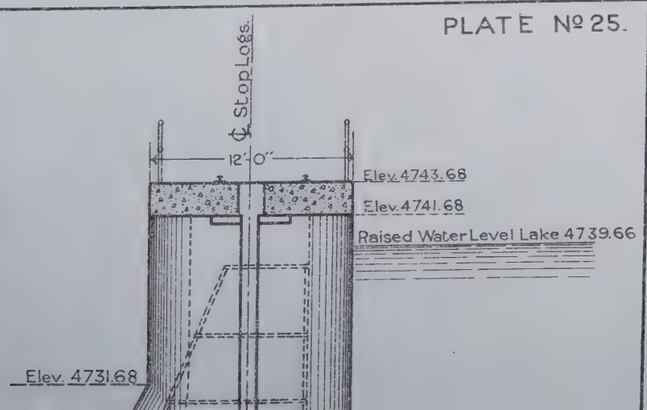


PLATE Nº 23.

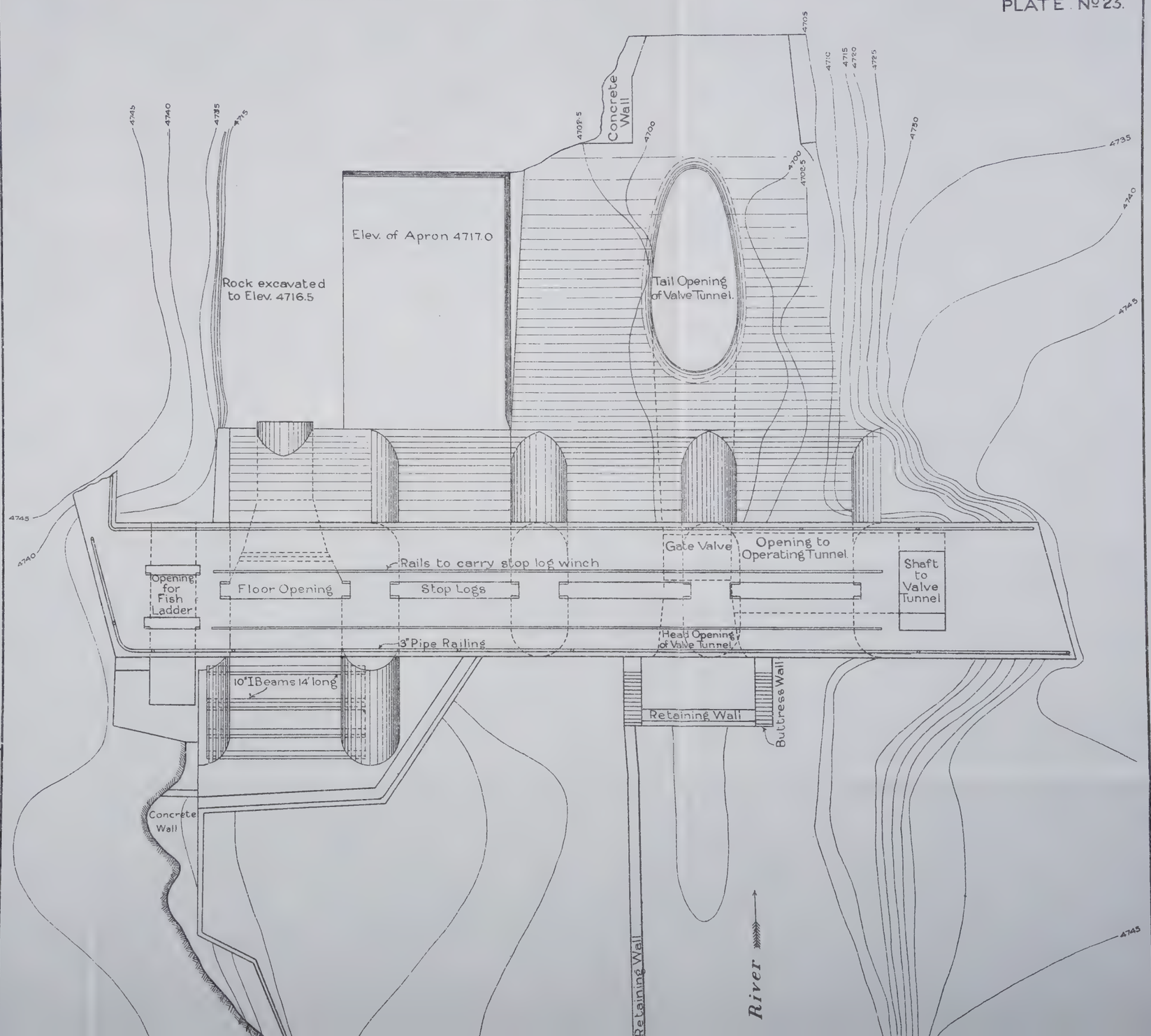
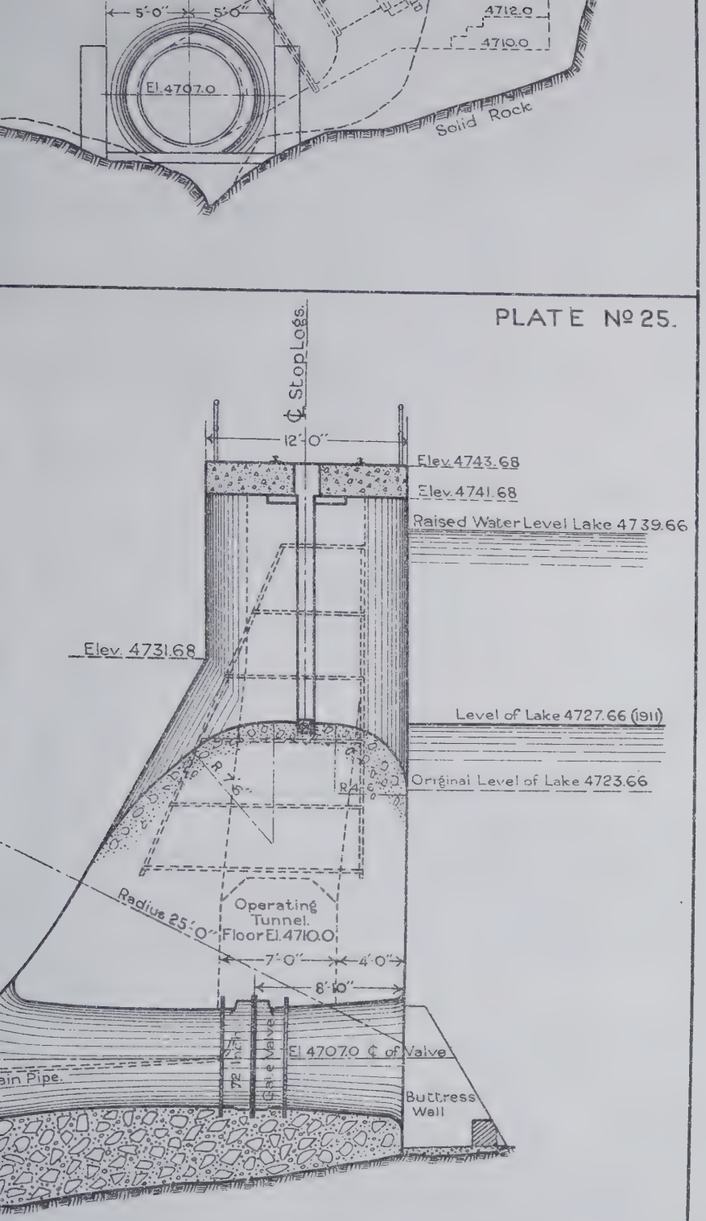


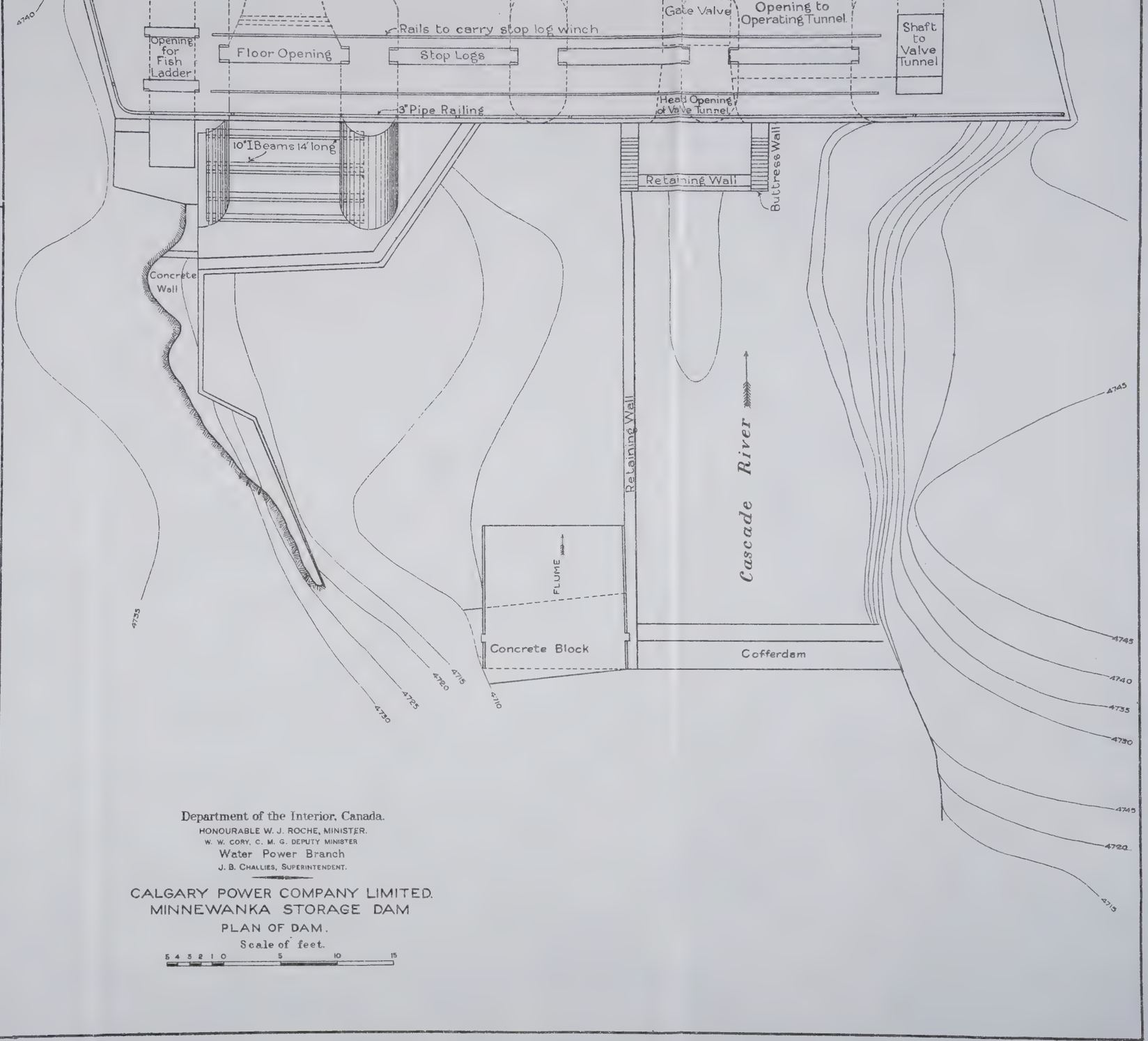
PLATE Nº 25.



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT

CALGARY POWER COMPANY LIMITED
MINNEWANKA STORAGE DAM
SECTION OF DAM.
Scale of feet.

5 4 3 2 1 0 5 10 15

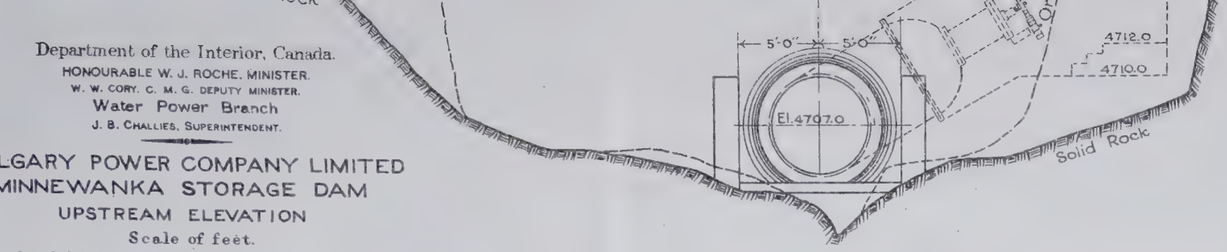


Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED.
MINNEWANKA STORAGE DAM
PLAN OF DAM.
Scale of feet.

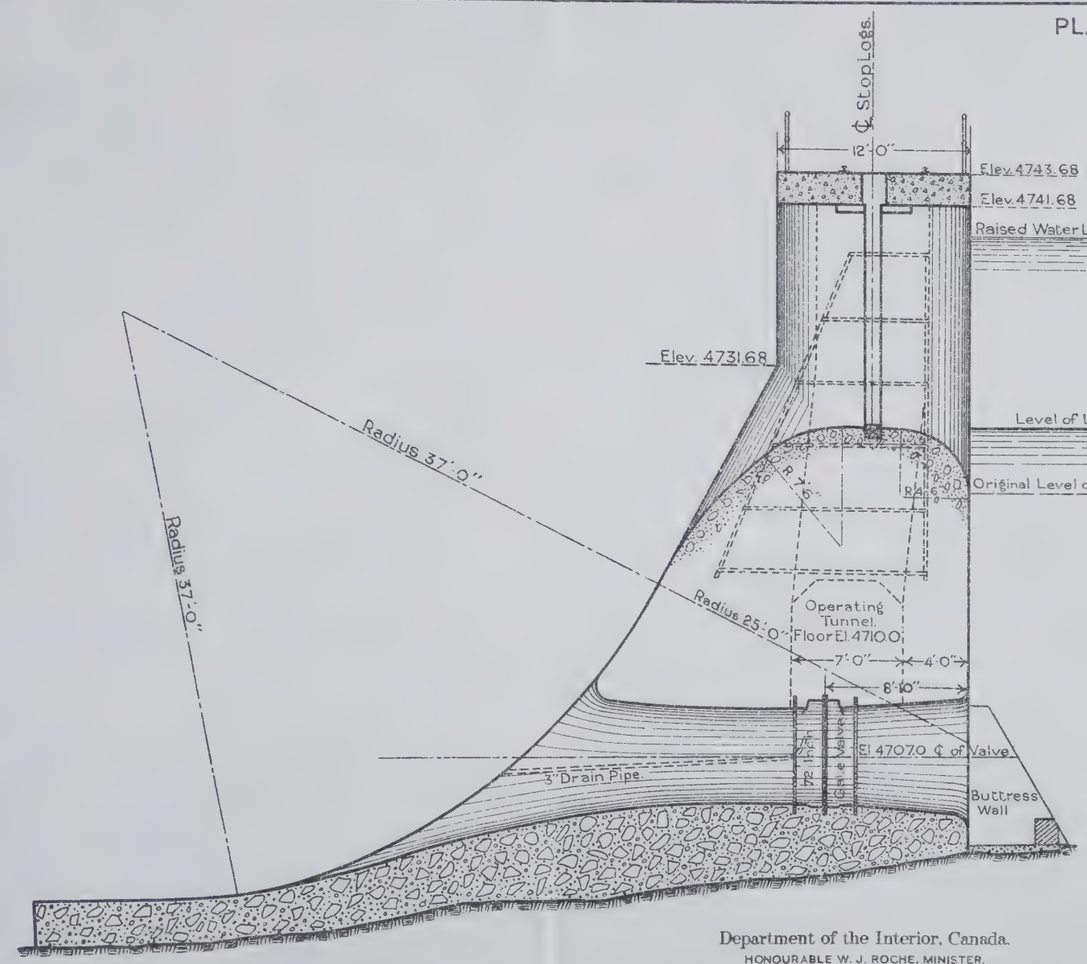
5 4 3 2 1 0 5 10 15

PLATE Nº 25.



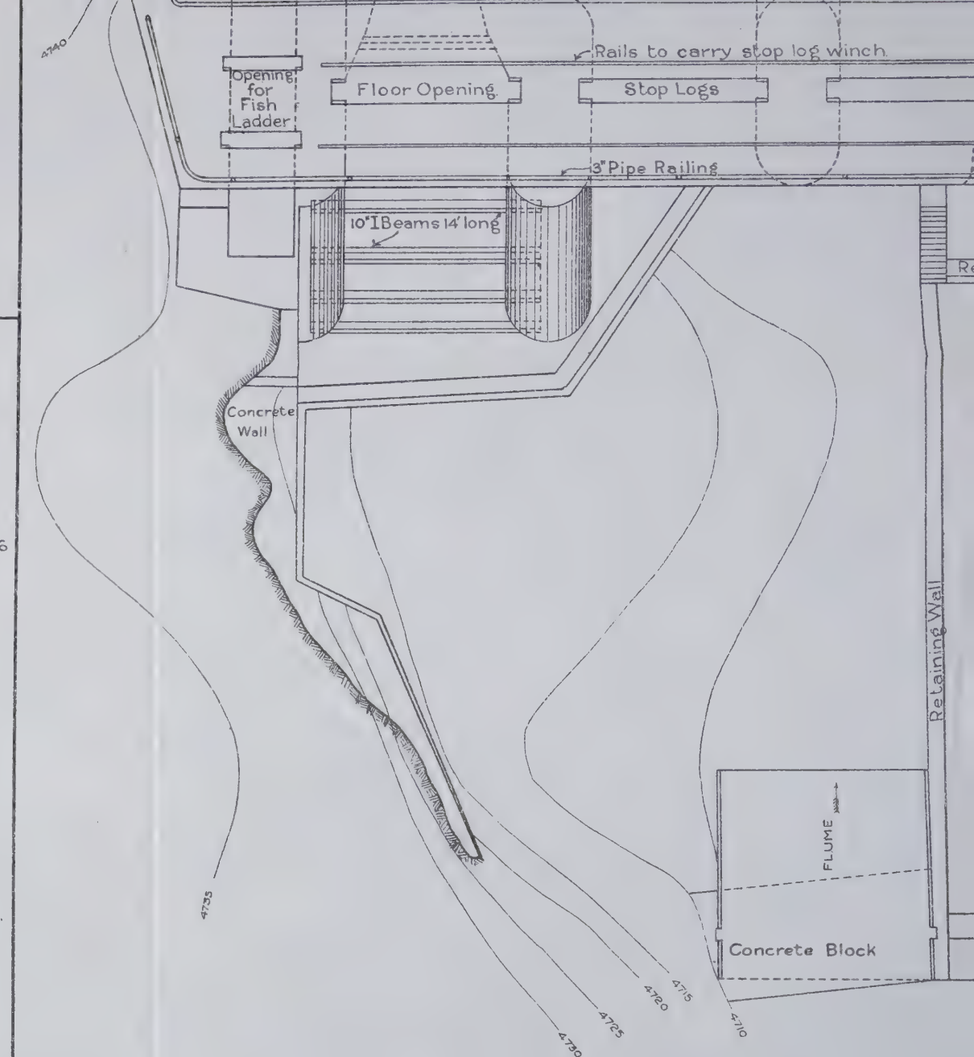
Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
MINNEWANKA STORAGE DAM
UPSTREAM ELEVATION
Scale of feet.



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
MINNEWANKA STORAGE DAM
SECTION OF DAM.
Scale of feet.



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED.
MINNEWANKA STORAGE DAM
PLAN OF DAM.
Scale of feet.

UAA-1974-169-9/217/6/37-017

Maximum Water Level 4158.0

Normal Water Level 4155.0

El. 4140.0

Dry Fill

Steps

Road 12'-0"

Dry Fill

13'-0"

50'-0"

Shale with frequent layers of sandstone

El. 4125.0

12'-0"

El. 4100.0

Electric Travelling Crane.

16'-0"

40'-7"

19'-5"

3750 K.W. 3 Phase 60 Cycle

El. 4137.0

El. 4116.0

Air Pipe

Tower and T

Soft shale alternated with occasional layers of Sandstone.

El. 4091.0

23'-6"

16'-0"

60'-0"

18'-0"

El. 4070.13

El. 4064.35

Department of the Interior, Canada.

HONOURABLE W. J. ROCHE, MINISTER.

W. W. CORY C.M.G. DEPUTY MINISTER.

Water Power Branch.

J. B. CHALLIES, SUPERINTENDENT

CALGARY POWER COMPANY LIMITED

KANANASKIS FALLS DEVELOPMENT

GENERAL SECTION.

Scale of feet.

10 5 4 3 2 1 0 10 20 30

PLATE N°26

4170
4165
4160
4155
4150
4145
4140
4135

Island

Transformer Compartments

Storage Ro

Switch Board

PLATE N°28

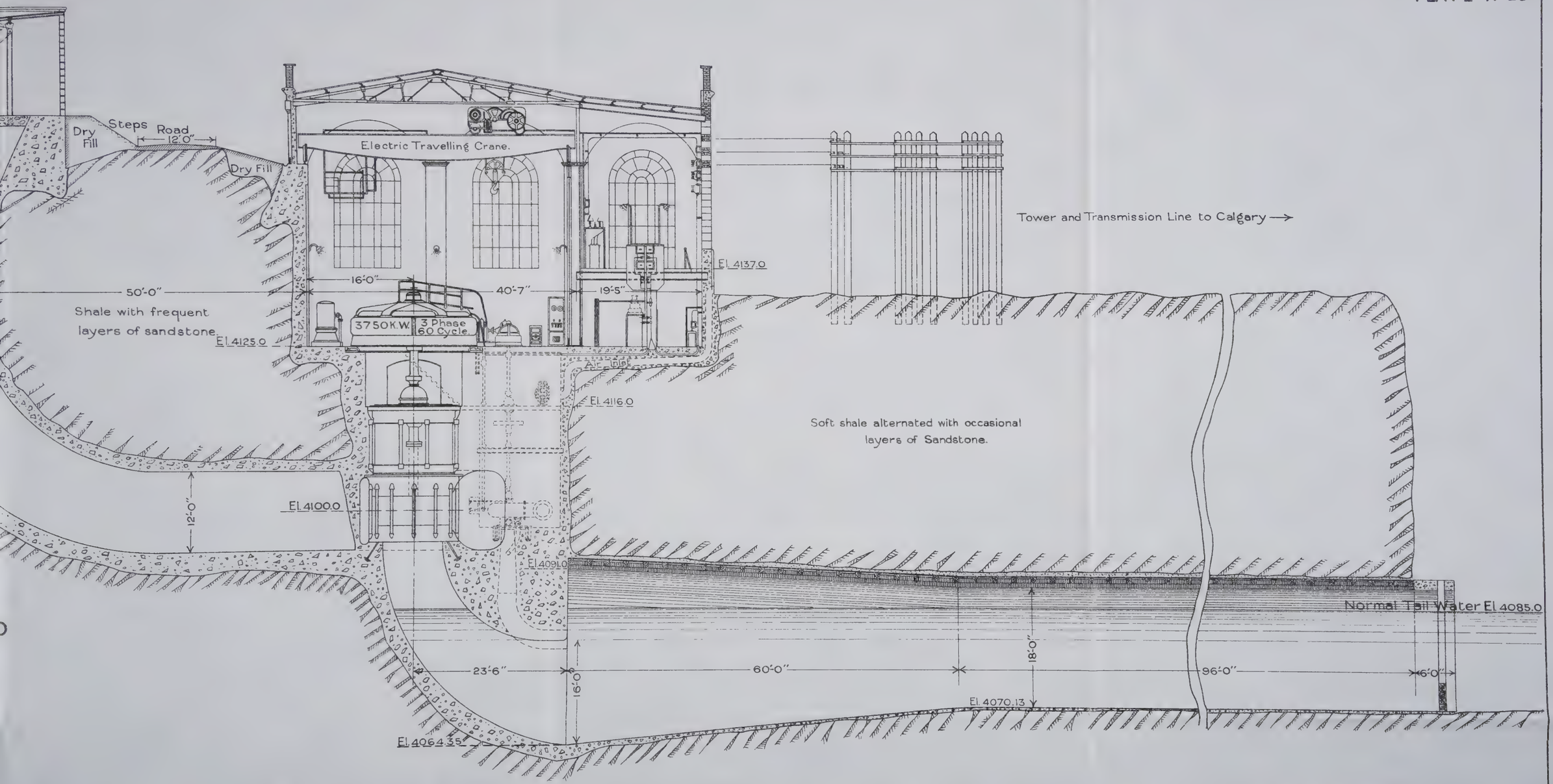


PLATE N°26

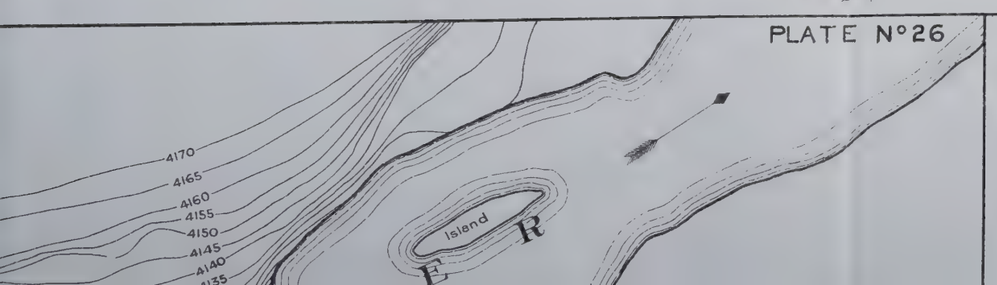
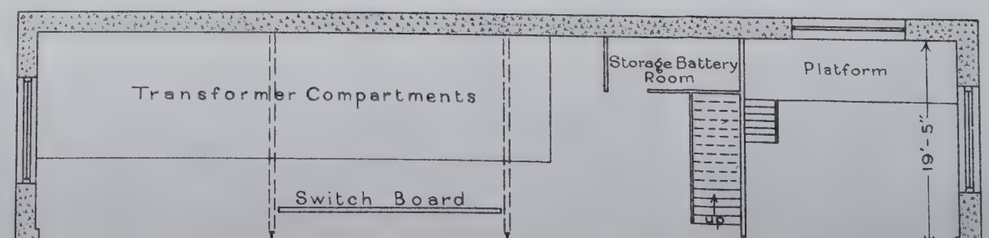


PLATE N°27



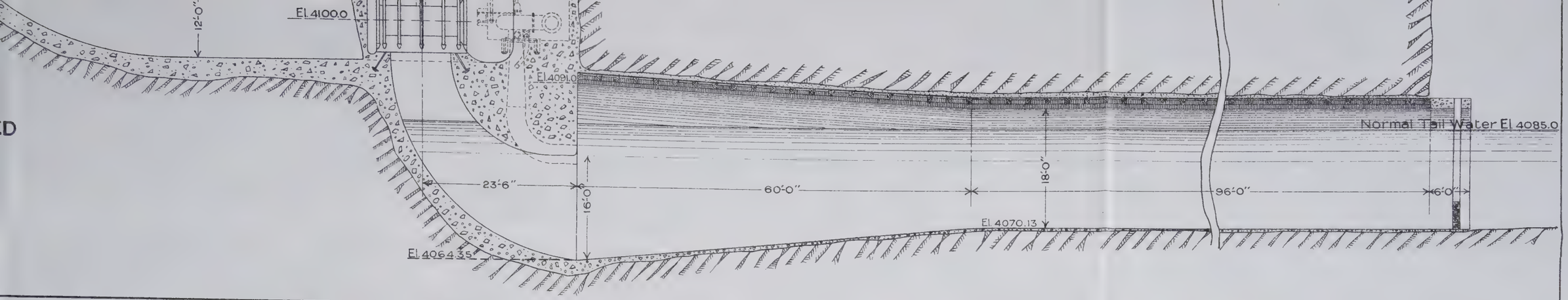
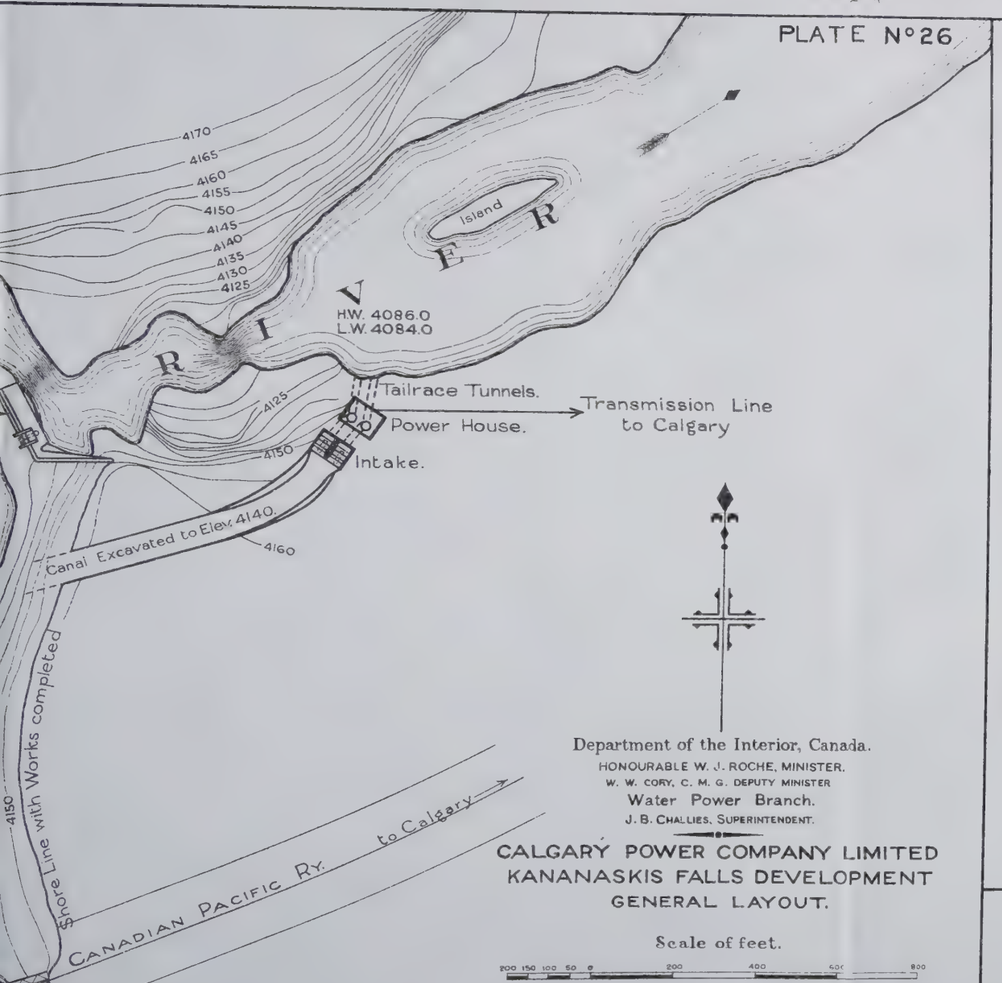


PLATE N°26



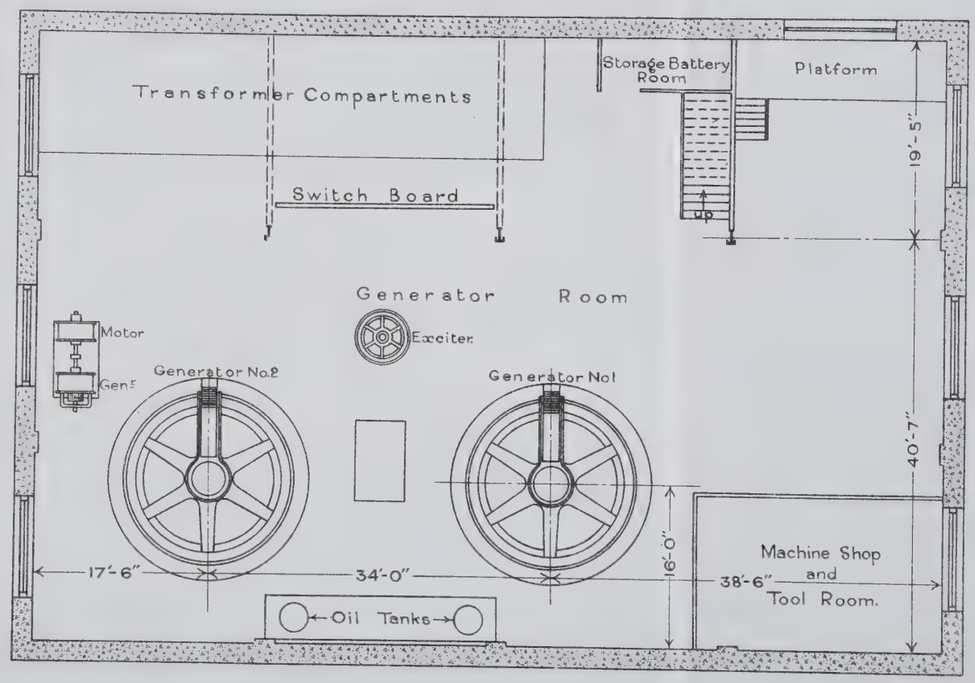
Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER
Water Power Branch.
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
KANANASKIS FALLS DEVELOPMENT
GENERAL LAYOUT.

Scale of feet.

200 150 100 50 0 200 400 600 800

PLATE N°27



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
KANANASKIS FALLS DEVELOPMENT
PLAN OF POWER HOUSE.
Scale of feet.

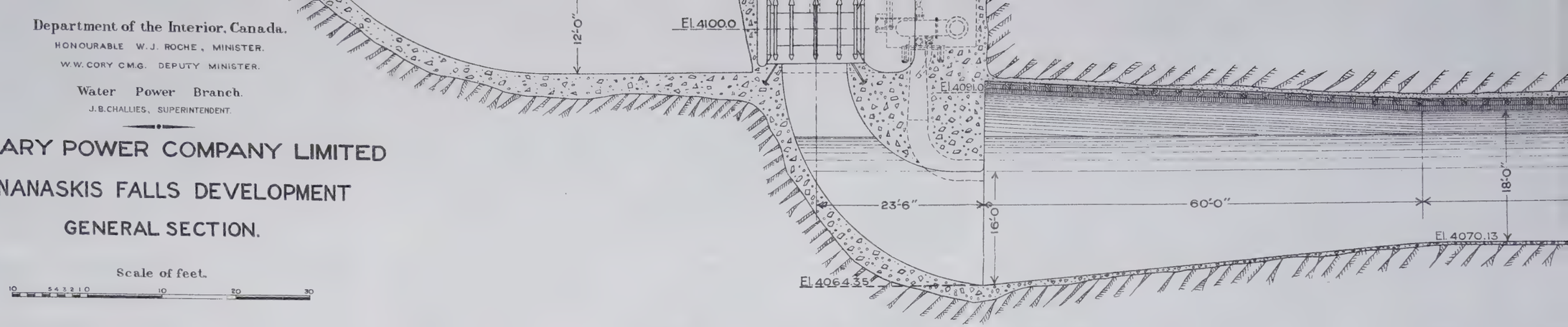
10 5 4 3 2 1 0 10 20 30

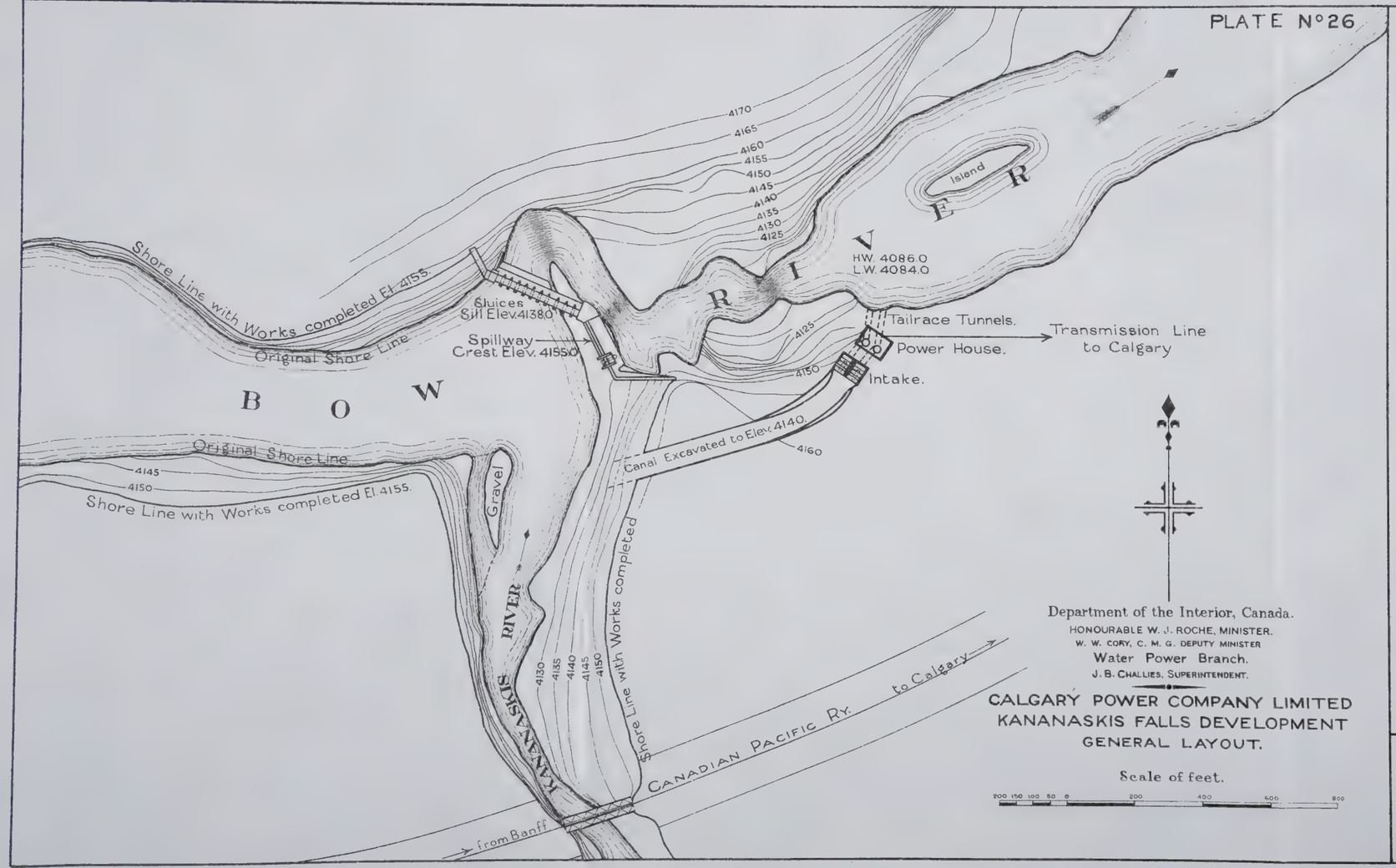
PLATE N°26

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY C.M.G. DEPUTY MINISTER.
Water Power Branch.
J.B. CHALLIES, SUPERINTENDENT.

CALGARY POWER COMPANY LIMITED
KANANASKIS FALLS DEVELOPMENT
GENERAL SECTION.

Scale of feet.
10 5 4 3 2 1 0 10 20 30

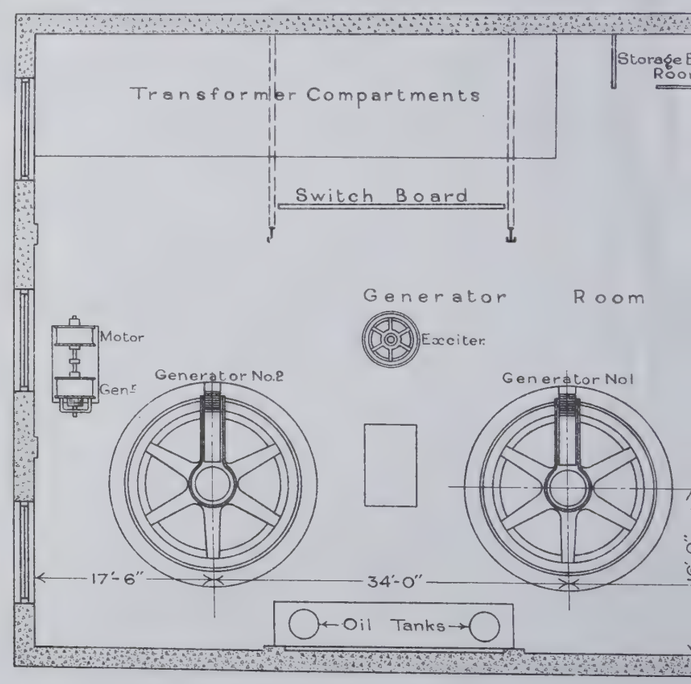




Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER.
W. W. CORY, C. M. G. DEPUTY MINISTER
Water Power Branch.
J. B. CHALLIES, SUPERINTENDENT.

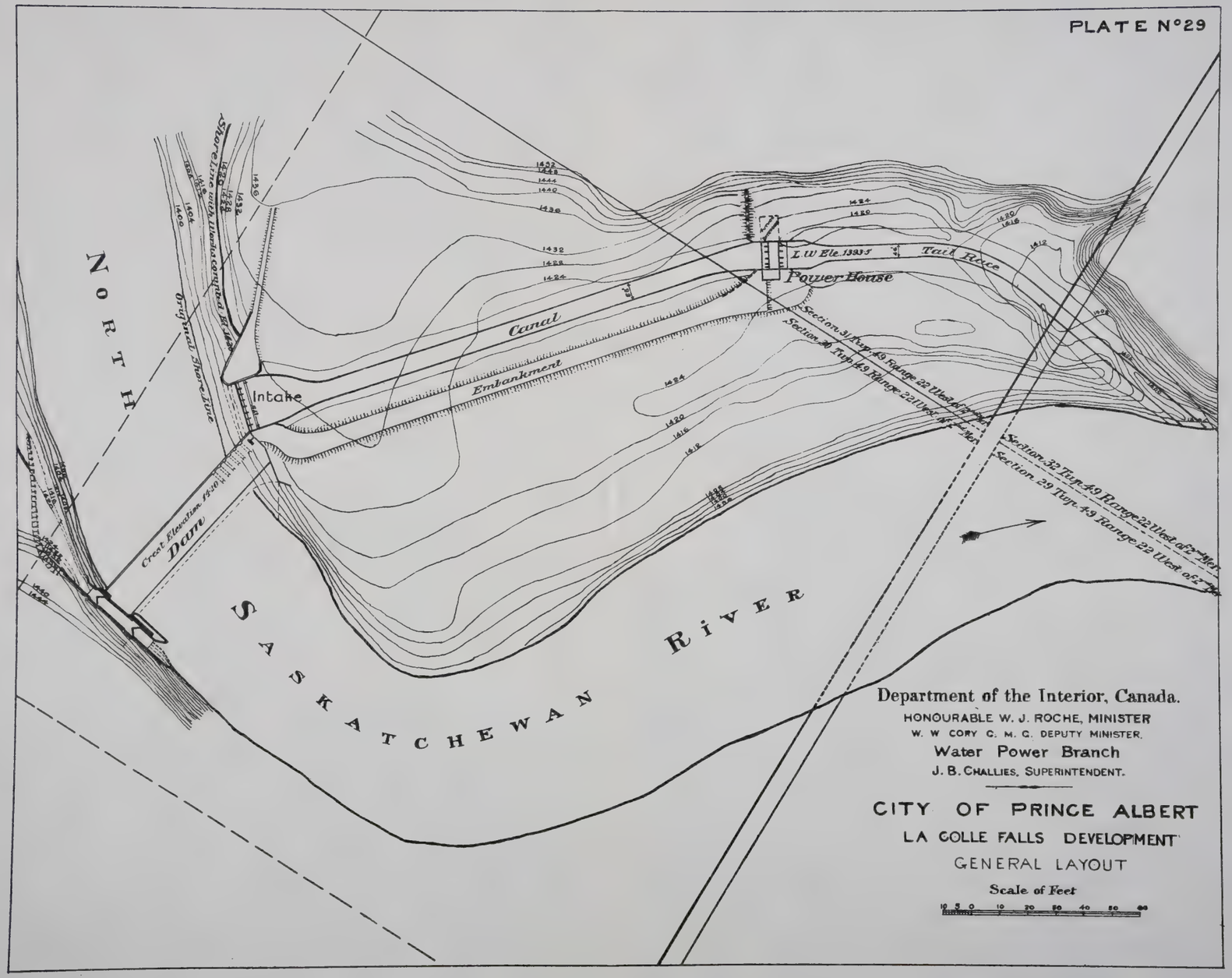
CALGARY POWER COMPANY LIMITED
KANANASKIS FALLS DEVELOPMENT
GENERAL LAYOUT.

Scale of feet.
200 150 100 50 0 200 400 600 800



UAA-1974-169-9/2/7/6/37-018

PLATE N°29



Department of the Interior, Canada.

HONOURABLE W. J. ROCHE, MINISTER

W. W CORY C. M. G. DEPUTY MINISTER.

Water Power Branch

J. B. CHALLIES, SUPERINTENDENT.

CITY OF PRINCE ALBERT

LA COLLE FALLS DEVELOPMENT

GENERAL LAYOUT

Scale of Feet

10 5 0 10 20 30 40 50 60

UAA-1974-169-9/2/7/6/36-019

PLATE Nº30

Department of the Interior, Canada.

HONOURABLE W. J. ROCHE, MINISTER

W W CORY C. M. G DEPUTY MINISTER.

Water Power Branch

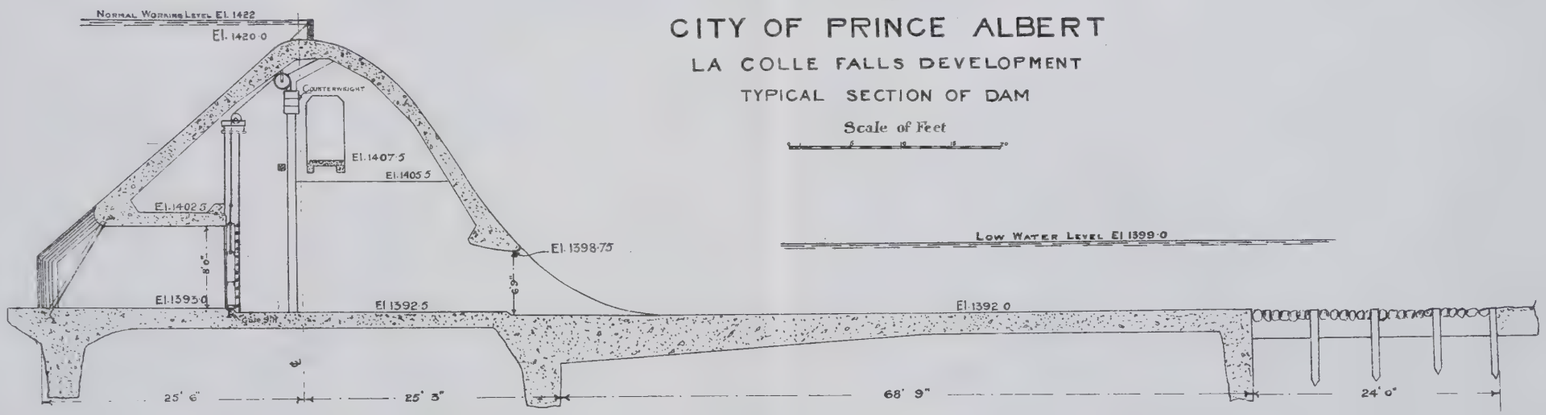
J. B. CHALLIES, SUPERINTENDENT.

CITY OF PRINCE ALBERT

LA COLLE FALLS DEVELOPMENT

TYPICAL SECTION OF DAM

Scale of Feet



UAA-1974-169-9/2/7/6/37-020

PLATE

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER
W. W. CORY C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES SUPERINTENDENT.

CITY OF PRINCE ALBERT
LA COLLE FALLS DEVELOPMENT
GENERAL SECTION OF POWER HOUSE

Scale of Feet

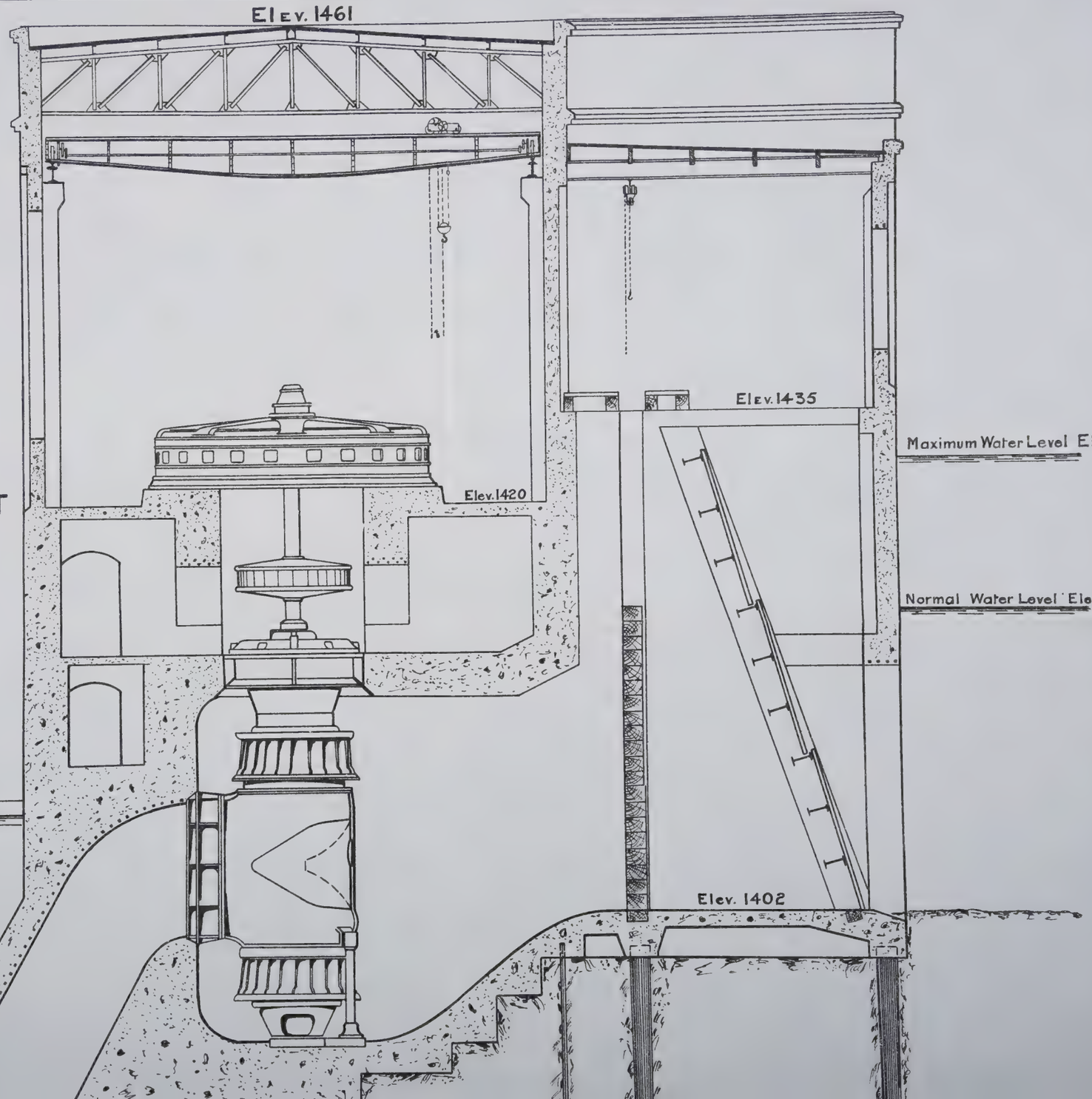
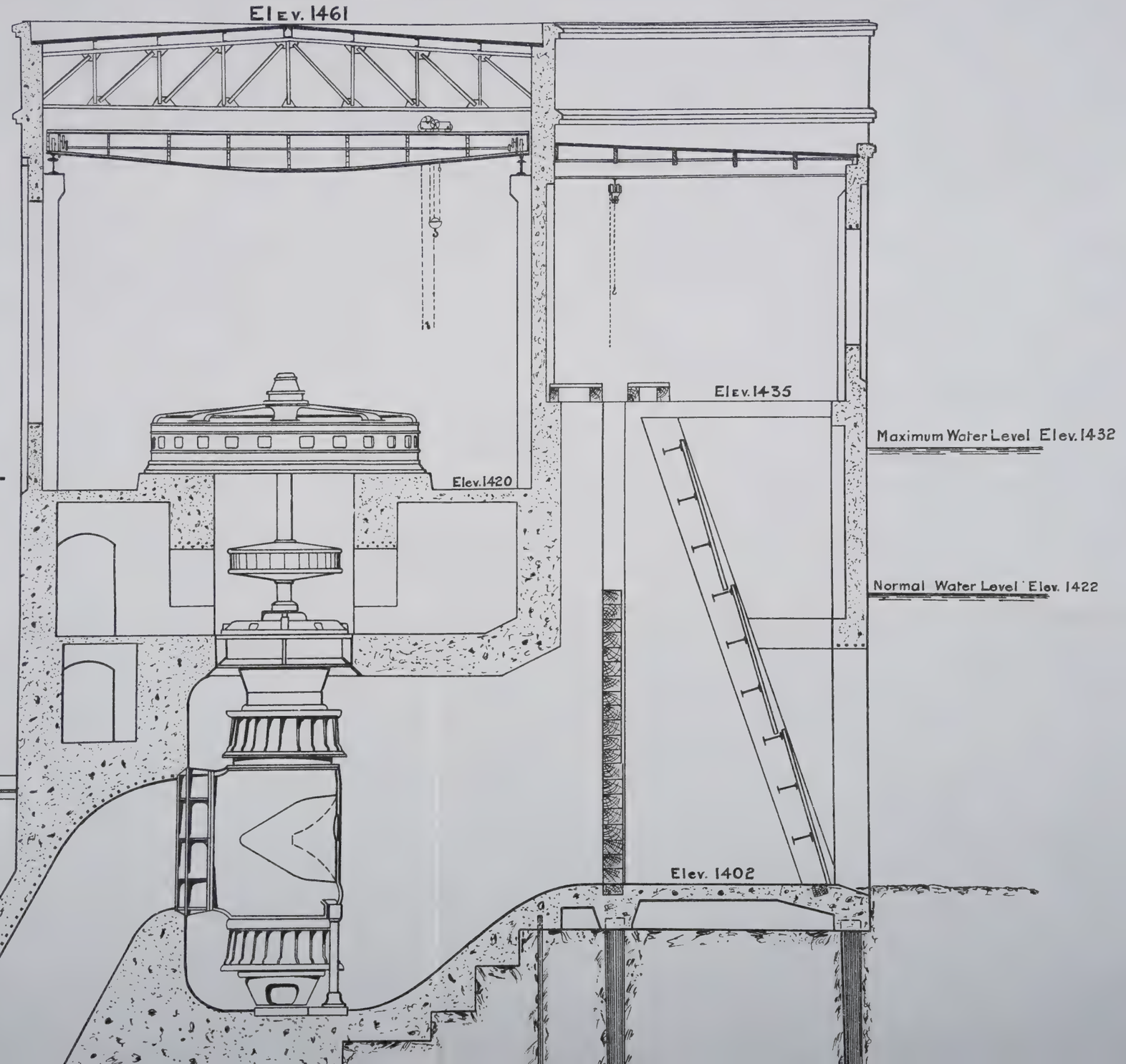


PLATE Nº 31

Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER
W. W. CORY C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES SUPERINTENDENT.

TY OF PRINCE ALBERT
LA COLLE FALLS DEVELOPMENT
GENERAL SECTION OF POWER HOUSE

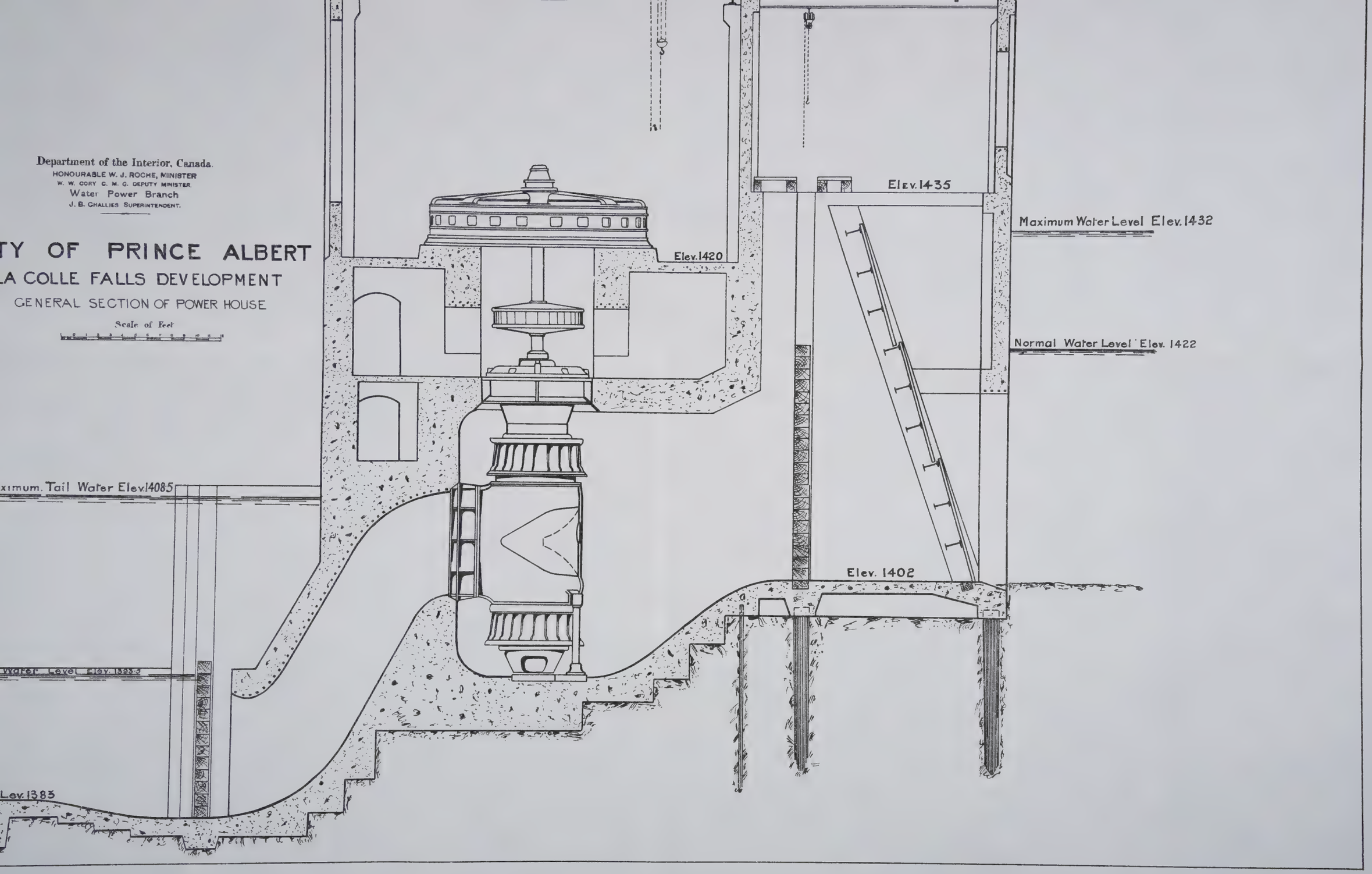
Scale of Feet



Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER
W. W. CORY C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES SUPERINTENDENT.

TY OF PRINCE ALBERT
LA COLLE FALLS DEVELOPMENT
GENERAL SECTION OF POWER HOUSE

Scale of Feet



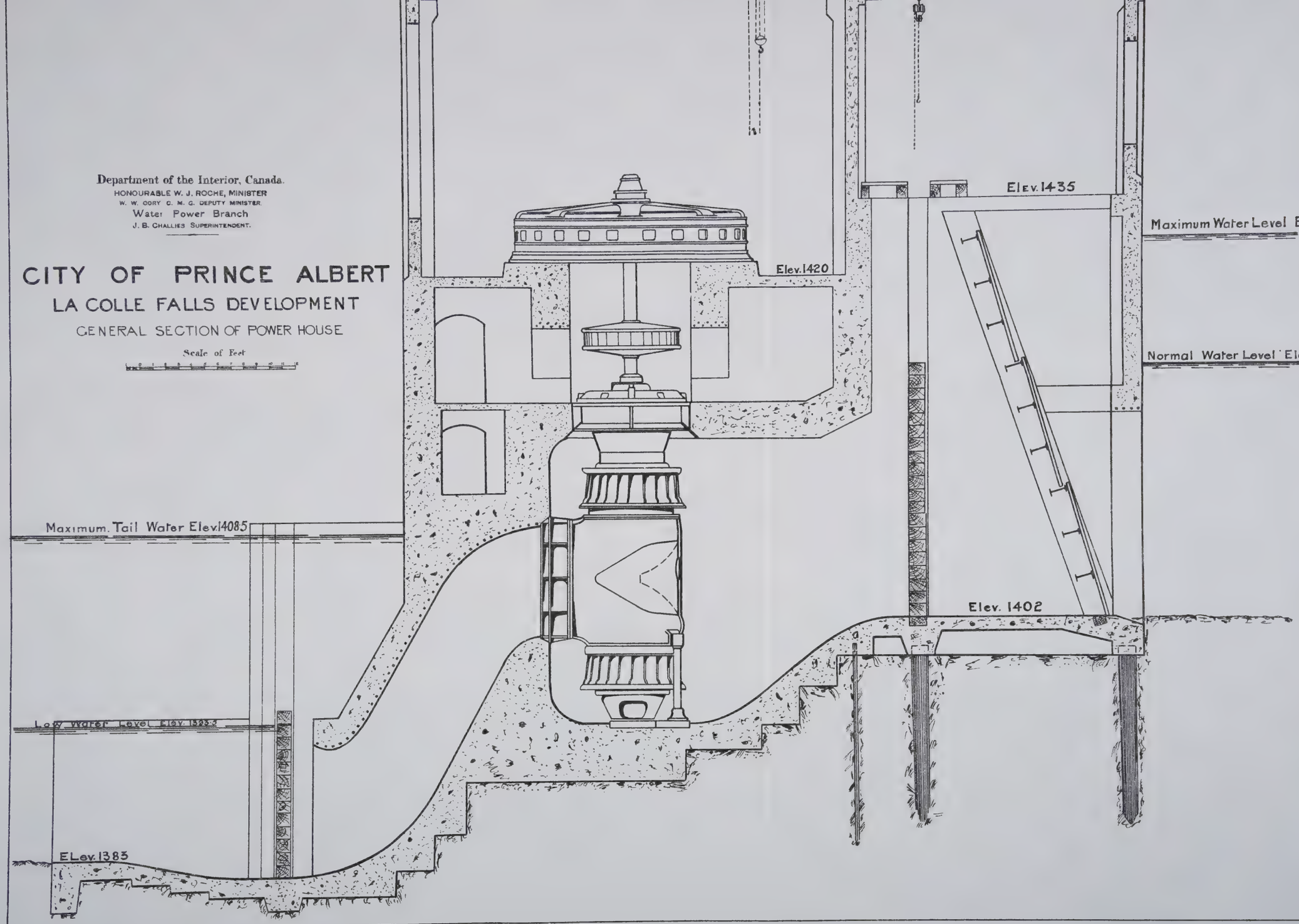
Department of the Interior, Canada.
HONOURABLE W. J. ROCHE, MINISTER
W. W. CORY C. M. G. DEPUTY MINISTER.
Water Power Branch
J. B. CHALLIES SUPERINTENDENT.

CITY OF PRINCE ALBERT

LA COLLE FALLS DEVELOPMENT

GENERAL SECTION OF POWER HOUSE

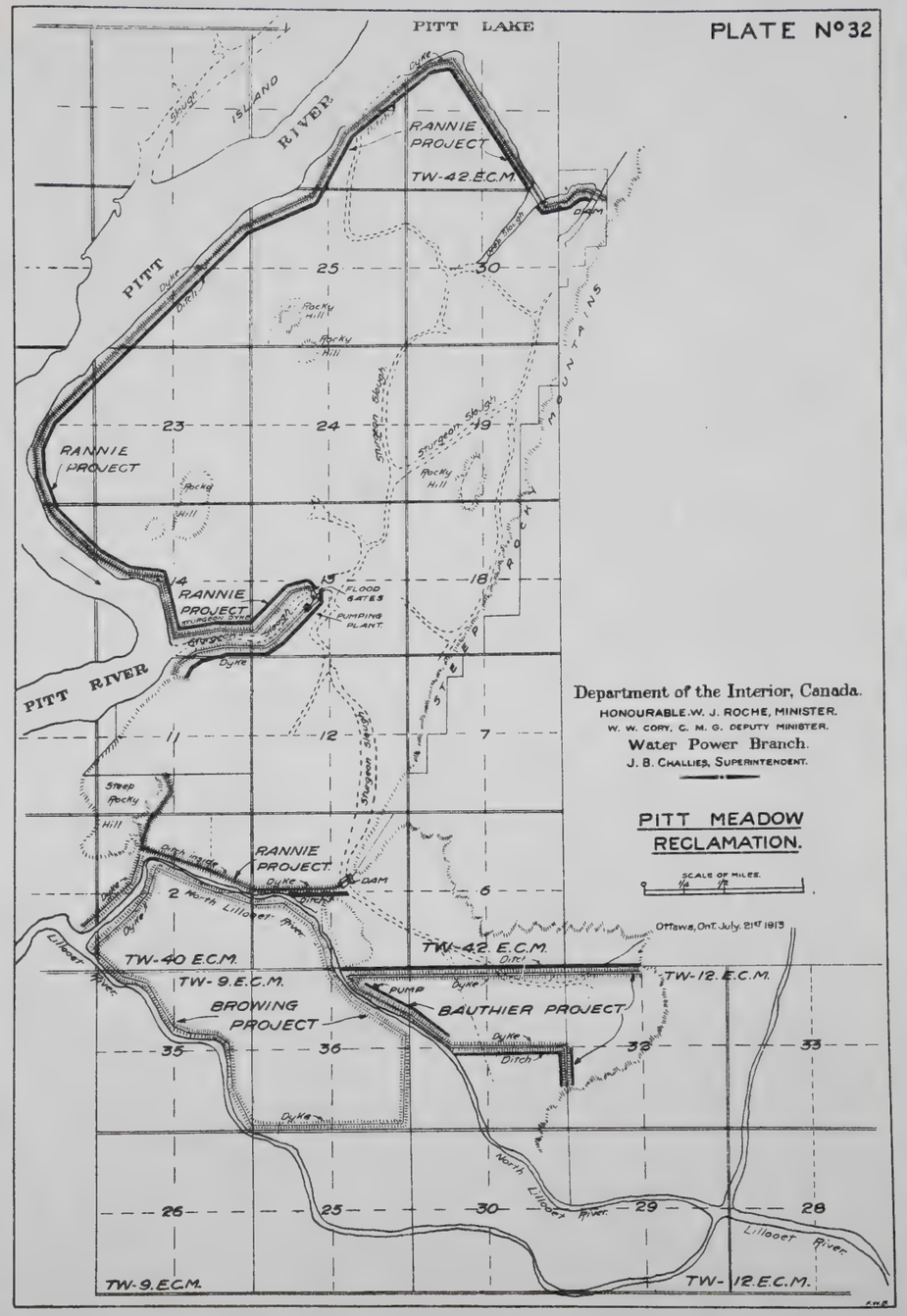
Scale of Feet



UAA-1974-169-9/2/7/6/37-021

UAA-1974-169-9/2

PLATE Nº32



Department of the Interior, Canada.

HONOURABLE W. J. ROCHE, MINISTER.

W. W. CORY, C. M. G. DEPUTY MINISTER.

Water Power Branch.

J. B. CHALLIES, SUPERINTENDENT.

PITT MEADOW RECLAMATION.

SCALE OF MILES.

Ottawa, Ont. July 21st 1913

UAA-1974-169-9/2/7/6/37-02a

CANADIAN PACIFIC RAILWAY
B.C. ELECTRIC RAILWAY

New channel for Sumas River

Marshall Cr.

Sumas Cr.

Sumas Creek

Elev. 86

Sarr Cr.

VICTORIA, VANCOUVER & EASTERN RLY. (UNDER CONSTR.)

DYKE Elev. 90

DYKE

Flume

CANADIAN NORTHERN

PUMPING STATION.

Elev. 60
Elev. 73

Miller Mt.

FRASER

Main Dyke Elev. 105

Main Sumas Lake Canal

Intercepting Canal

Dyke

Dyke

Vedder channel

Flood line of 1894

B.C. ELECTRIC

Dyke

Dyke

Main Sumas Lake Canal

Intercepting Canal

SUMAS LAKE 79 level.

Average water

Intermediate Intercepting Canal

Vedder River

Flood line of 1894
Elev. 102.

INTERNATIONAL BOUNDARY

B.C. ELECTRIC RLY.

Arnold Slough

VEDDER MOUNTAIN

DEPARTMENT OF THE INTERIOR CANADA.
HONOURABLE. W. J. ROCHE, MINISTER.
W. W. CORY. C. M. G. DEPUTY MINISTER.
WATER POWER BRANCH.
J. B. CHALLIES, SUPERINTENDENT.

SUMAS DYKING PROJECT

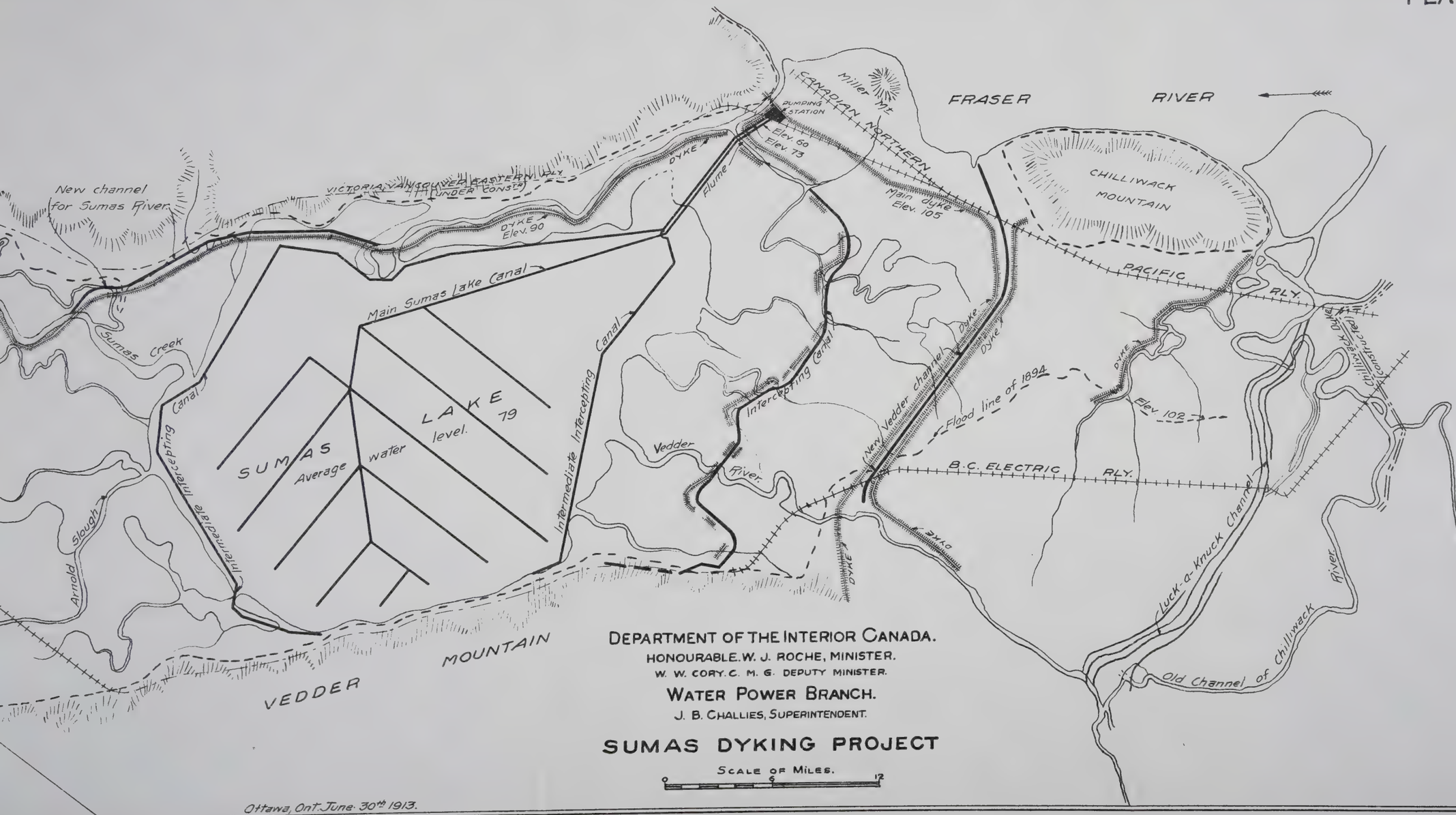
SCALE OF MILES.

0 6 12

F.W.B.

Ottawa, Ont. June 30th 1913.

PLATE Nº 33



DEPARTMENT OF THE INTERIOR CANADA.

HONOURABLE. W. J. ROCHE, MINISTER.

W. W. CORY. C. M. G. DEPUTY MINISTER.

WATER POWER BRANCH.

J. B. CHALLIES, SUPERINTENDENT.

SUMAS DYKING PROJECT

SCALE OF MILES.

0 6 12

Ottawa, Ont. June. 30th 1913.

UAA-1974-169-9/2/7/6/37-023

Hot Spring
Mountain Ave.
Pine Ave.
Birch Ave.
Maple Ave.
Cedar Ave.
Spray Ave.
Reserve
Spray River Reserve
Elm Ave.
Beech Ave.
Aspen Ave.
Alpine Club
Aloer Ave.
Mountain Ave.
Pine Ave.
Willow Ave.
Chestnut Ave.
Cedar Ave.
Spray Ave.
Reserve
Banff Springs Hotel
Glen Ave.
River Ave.
Bow River
Chestnut Ave.
Juniper Ave.
Spruce Ave.
Myrtle Ave.
Cave Ave.
Basin
Cave
Sanitarium
Bow Avenue
Banff Avenue
Bear Street
Lynx Street
Buffalo Street
Beaver Street
Muskrat Street
Otter Street
Cairo Street
Elk Street
Wolf Street
Marten Street
Squirrel Street
C.P.R. Sta.
Pacific

PLATE Nº34

Basin
Cave
Alder Ave
Alpine Club
Mountain Ave
Pine Ave.
Willow Ave
Chestnut Ave.
Cedar
Ave.
Reserve
Spray Ave.
Sanitarium
Banff Springs Hotel
Glen Ave.
River Ave.
River
Bow
Chestnut Ave.
Juniper Ave.
Spruce
Myrtle
Cave
Ave.
Railway
Avenue
Bow
Bear
Lynx
Banff
Street
Beaver
Buffalo
Muskrat
Otter
Wolf
Elk
Marten
Squirrel
C.P.R Station
Pacific
Fork
Mile
Creek
Beech Ave.
Aspen Ave.

Department of the Interior, Canada
Water Power Branch
J.B. Challies, Superintendent.

ELECTRIC LIGHTING PROJECT

PROPOSED FOR

BANFF IN ROCKY MOUNTAINS PARK

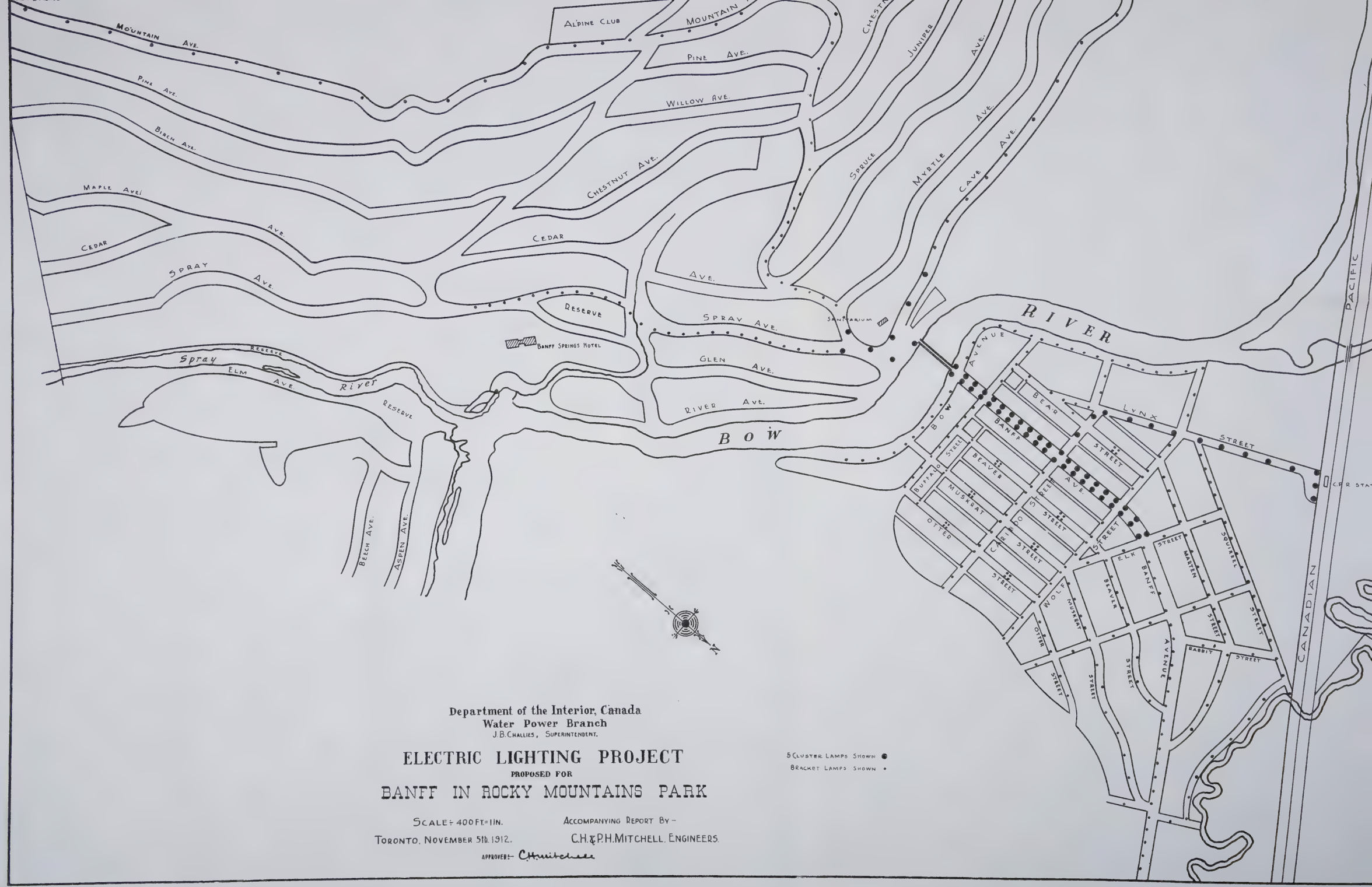
Scale - 400 Ft = 1 In.

Toronto, November 5th. 1912.

Accompanying Report By -
C.H. & P.H. Mitchell, Engineers.

Approved: C.H. Mitchell

5 Cluster Lamps Shown ●
Bracket Lamps Shown •



Department of the Interior, Canada
Water Power Branch
J.B. Challies, Superintendent.

ELECTRIC LIGHTING PROJECT

PROPOSED FOR

BANFF IN ROCKY MOUNTAINS PARK

Scale: 400 Ft. = 1 In.

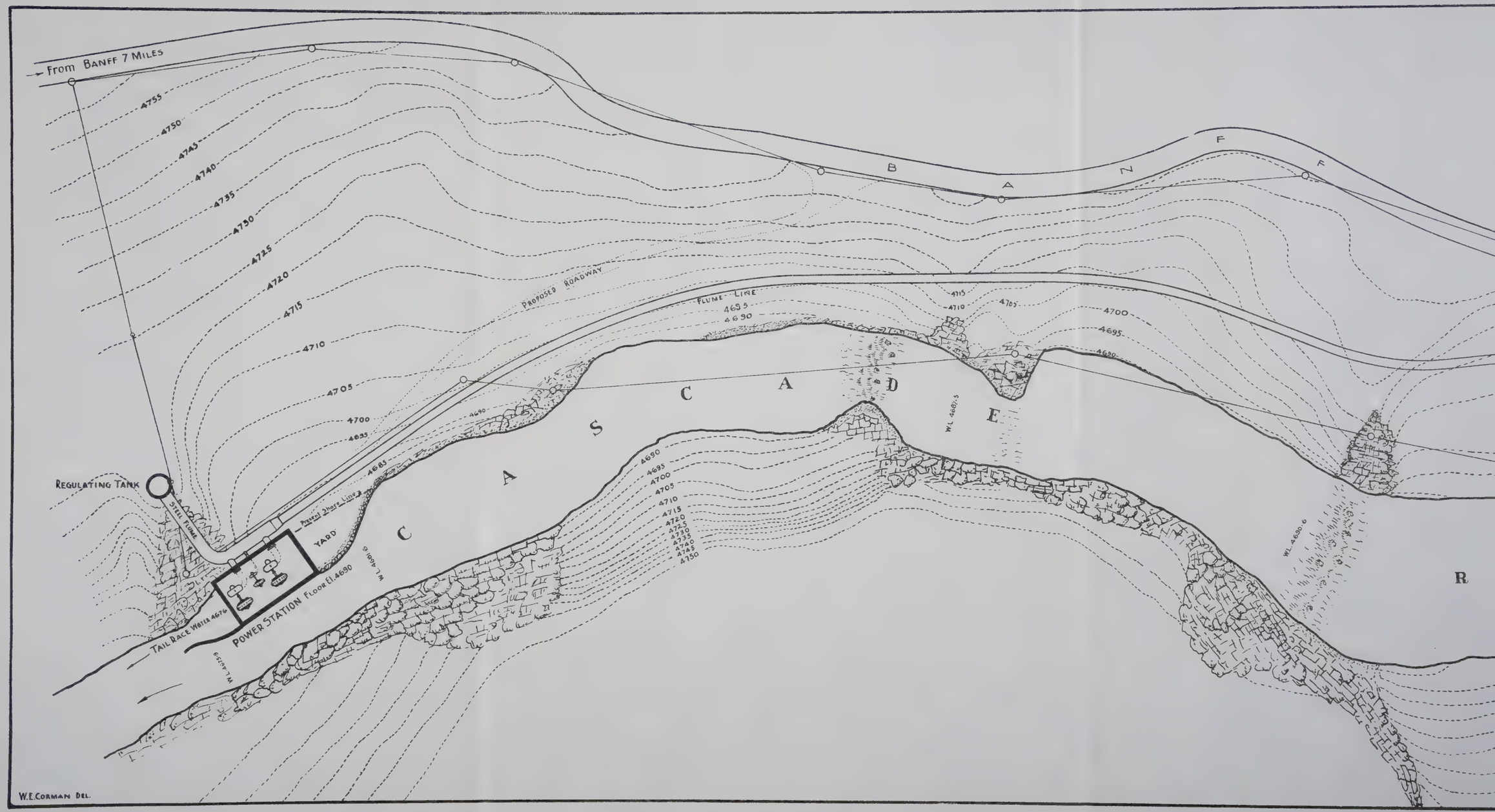
Toronto, November 5th. 1912.

Accompanying Report By –
C.H. & P.H. Mitchell, Engineers.

Approved:- C.H. Mitchell

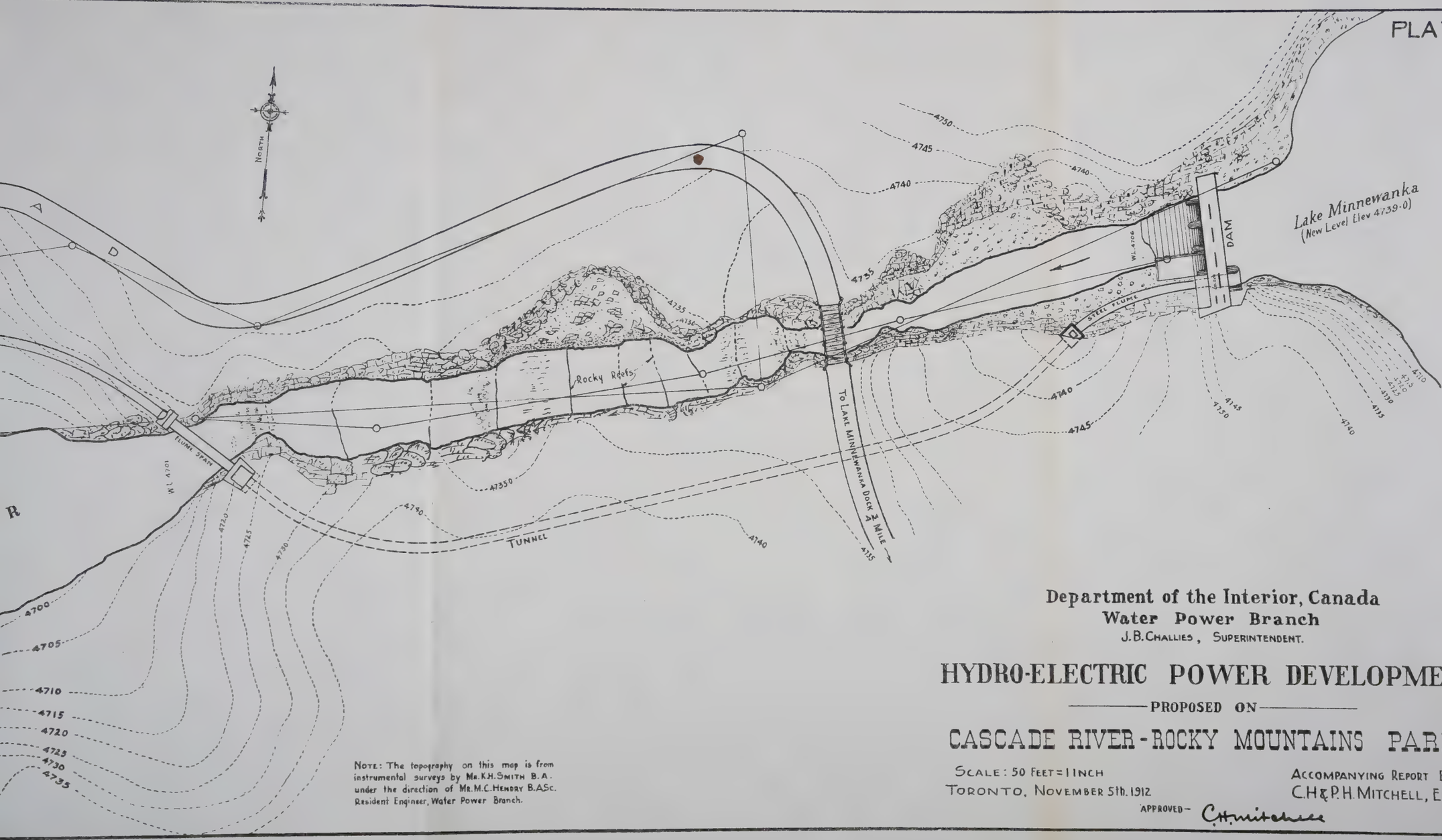
5 Cluster Lamps Shown ●
Bracket Lamps Shown •

UAA-1974-169-9/2/7/6/37-024


From Banff 7 Miles
B A N F F
C A S C A D E
R
Proposed Roadway
Flume Line
Regulating Tank
Steel Flume
Portal Shore Line
Yard
Power Station Floor El. 4690
Tail Race Water 4676
W.L. 4691.6
W.L. 4629.9
W.L. 4687.5
W.L. 4630.6
4755
4750
4745
4740
4735
4730
4725
4720
4715
4710
4705
4700
4695
4690
4685
W.E. Corman Del.

NOTE: The topography on this map is from instrumental surveys by Mr. K.H. SMITH B.A. under the direction of Mr. M.C. HENDRY B.ASc. Resident Engineer, Water Power Branch.

PLATE Nº 35



Note: The topography on this map is from instrumental surveys by Mr. K.H. Smith B.A. under the direction of Mr. M.C. Hendry B.A.Sc. Resident Engineer, Water Power Branch.

Department of the Interior, Canada
Water Power Branch
J.B. Challies, Superintendent.

HYDRO-ELECTRIC POWER DEVELOPMENT

PROPOSED ON

CASCADE RIVER - ROCKY MOUNTAINS PARK

Scale: 50 Feet = 1 Inch
Toronto, November 5th. 1912

Accompanying Report By—
C.H. & P.H. Mitchell, Engineers.

Approved— C.H. Mitchell

UAA-1974-169-9/2/7/6/37-025

Department of the Interior, Canada.
HONOURABLE DR. ROCHE. MINISTER.
W.W. CORY C.M.G. DEPUTY MINISTER.

Water Power Branch.
J.B. CHALLIES. SUPERINTENDENT.

PLAN

OF PART OF

CEDAR LAKE AND CROSS LAKE

PROVINCE OF MANITOBA

TO ACCOMPANY REPORT FOR SEASON 1912.

BY

THOS. H. DUNN, C.E. O.L.S.

Scale—1500 Feet – 1 Inch.

———— Contemplated Canal Routes.

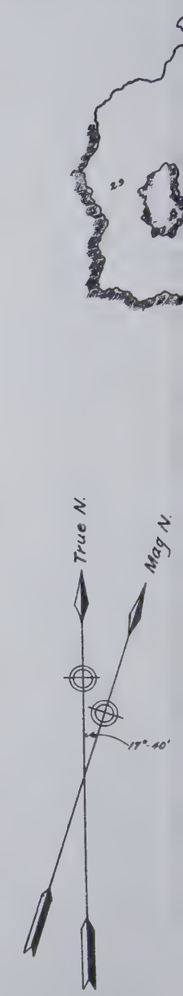


PLATE No 36

Department of the Interior, Canada.
HONOURABLE DR. ROCHE. MINISTER.
W.W. CORY C.M.G. DEPUTY MINISTER.

Water Power Branch.
J.B. CHALLIES. SUPERINTENDENT.

PLAN

OF PART OF

CEDAR LAKE AND CROSS LAKE

PROVINCE OF MANITOBA

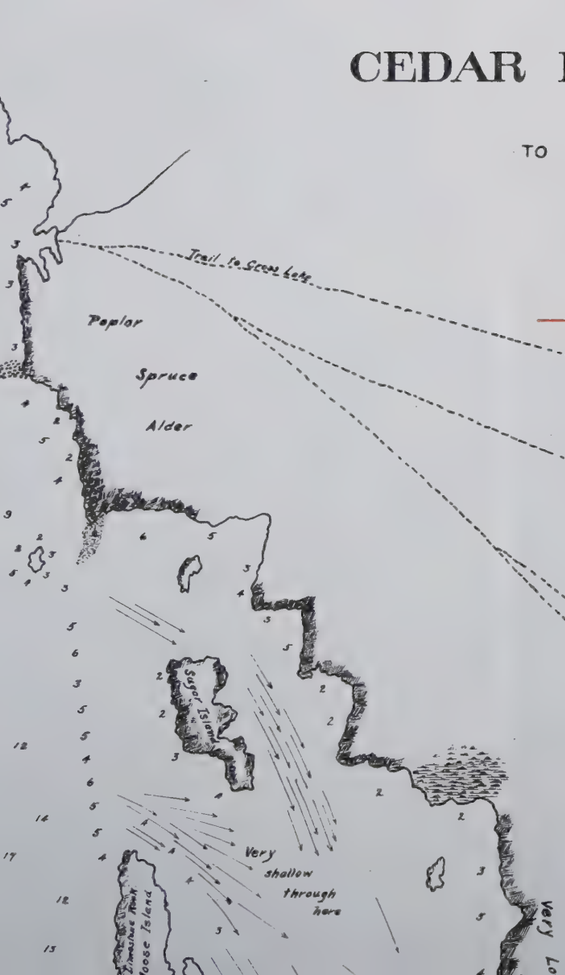
TO ACCOMPANY REPORT FOR SEASON 1912.

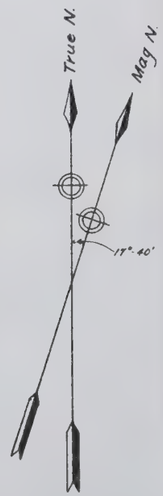
BY

THOS. H. DUNN, C.E. O.L.S.

Scale—1500 Feet – 1 Inch.

———— Contemplated Canal Routes.





Trail to Cross Lake

Heavy ridge of Spruce

Spruce Alder Willow

LAMBS BAY

Shore Line is very low

Interior Is Heavily Wooded

East Shore

Very

Dog Trail to Cross Lake

Very Low Shore Line

Very Shallow through here

Moose Island

Small Island

A

THE NARROWS

Heavy Spruce

Dividing Island

Trail to Cross Lake

Swamp & Marsh

BLOCK ISLAND

FLYING POST RAPIDS

Very Shallow

Swamp Land

Limestone Rock

Swamp Land

Muskeg

O

Very Shallow

Many Limestone Ridges

Muskeg

Spruce & Poplar

Muskeg

F

CROSS LAKE

CHANNEL ISLAND

SASKATCHEWAN RIVER

Limestone Shore Line

Dolomitic Limestone

Swamp

Heavy Spruce & Poplar

Very Heavy Woods

Very Shallow Bay

Centre Island

ANCHOR POINT 20ft high

Dolomitic Limestone

H.B.Co. Warehouse

DEMI-CHARGE RAPIDS

Colico Isl.

Heavy Woods

Shallow

Spruce Island

E

NOTE - SOUNDINGS ARE IN FEET AND GIVE THE MEAN DEPTH OF THE WATER FOR SEPTEMBER 1912

O.W.N.C. - 1/4/13

CEDAR LAKE

SASKATCHEWAN RIVER

CROSS

THE NARROWS

FLYING POST RAPIDS

DEMI-CHARGE RAPIDS

ANCHOR POINT 20ft high

Dividing Island.

Centre Island

Moose Island

Sugar Island

Heavy Spruce

Very shallow through here

Very Low Shore Line

Interior Land is very Low.

Heavy Spruce Poplar Birch

Very Low Shore

Marsh

Very Heavy Woods

Swamp

Heavy Spruce & Poplar

Very Shallow Bay

Heavy Woods

Shallow

Spruce Island

Very Shallow

Swamp Land

Limestone Rock

Many Limestone Ridges

Muskeg

Spruce & Poplar

Dolomitic Limestone

H.B.Co. Warehouse

Police Isl.

Heavy ridge of Spruce

Spruce Alder Willow

Shore Line is very low

Dog Trail to Cross Lake

Trail to Cross Lake

Swamp Marsh

A

B

C

D

E

F

NOTE - SOUNDINGS ARE IN FEET AND GIVE THE MEAN DEPTH OF THE WATER FOR SEPTEMBER 1912

UAA-1974-169-9/2/7/6/37-026

52.30
53
53.30
54
54.30
SECOND MERIDIAN
102
101.30
101
100.30
100
PROVINCE OF SASKATCHEWAN
PROVINCE OF MANITOBA
Red Deer River
Deer River
Overflowing River
Pasquia Mountains
Canadian Northern Railway
Carrot River
Saskatchewan River
Birch River
Cumberland Lake
Jackfish Island
Cranberry
Pine Point
Pine Island
Namew Lake
Fox River
Goose River
Goose Lake
Ahtahpuskow Lake
Rock Lake
Reger Lake
Le Pas
Saskatchewan River
Wooden Tent
Clear Water Lake
Cormorant Lake
Frog River
Big Lake
Driftwood Lake
Red Deer Lake
Swan Lake
Dawson Bay
Lake Winnipegosis
Cedar Lake
Clear Lake
Moose Lake
Omoose Lake
Portage
Old Channel
Mossy Portage
Mossy River
Shell Islands
Pine Point
Mile 1
Mile 2
Mile 3
Mile 4
Mile 5
Mile 6
Mile 7
Mile 8
Mile 9
Mile 10
Mile 11
Mile 12
Mile 13
Mile 14
Mile 15
Mile 16
Mile 17
Mile 18
Mile 19
Mile 20
Mile 21
Mile 22
Mile 23
Mile 24
Mile 25
Mile 26
Mile 27
Mile 28
Mile 29
Mile 30
Mile 31
Mile 32
Mile 33
Mile 34
Mile 35
Mile 36
Mile 37
Mile 38
Mile 39
Mile 40
Mile 41
Mile 42
Mile 43
Mile 44
Mile 45
Mile 46
Mile 47
Mile 48
Mile 49
Mile 50
Mile 51
Mile 52
Mile 53
Mile 54
Mile 55
Mile 56
Mile 57
Mile 58
Mile 59
Mile 60
Mile 61
Mile 62
Mile 63
Mile 64
Mile 65
Mile 66
Mile 67
Mile 68
Mile 69
Mile 70
Mile 71
Mile 72
Mile 73
Mile 74
Mile 75
Mile 76
Mile 77
Mile 78
Mile 79
Mile 80
Mile 81
Mile 82
Mile 83
Mile 84
Mile 85
Mile 86
Mile 87
Mile 88
Mile 89
Mile 90
Mile 91
Mile 92
Mile 93
Mile 94
Mile 95
Mile 96
Mile 97
Mile 98
Mile 99
Mile 100
Mile 101
Mile 102
Mile 103
Mile 104
Mile 105
Mile 106
Mile 107
Mile 108
Mile 109
Mile 110
Mile 111
Mile 112
Mile 113
Mile 114
Mile 115
Mile 116
Mile 117
Mile 118
Mile 119
Mile 120
Mile 121
Mile 122
Mile 123
Mile 124
Mile 125
Mile 126
Mile 127
Mile 128
Mile 129
Mile 130
Mile 131
Mile 132
Mile 133
Mile 134
Mile 135
Mile 136
Mile 137
Mile 138
Mile 139
Mile 140
Mile 141
Mile 142
Mile 143
Mile 144
Mile 145
Mile 146
Mile 147
Mile 148
Mile 149
Mile 150
Mile 151
Mile 152
Mile 153
Mile 154
Mile 155
Mile 156
Mile 157
Mile 158
Mile 159
Mile 160
Mile 161
Mile 162
Mile 163
Mile 164
Mile 165
Mile 166
Mile 167
Mile 168
Mile 169
Mile 170
Mile 171
Mile 172
Mile 173
Mile 174
Mile 175
Mile 176
Mile 177
Mile 178
Mile 179
Mile 180
Mile 181
Mile 182
Mile 183
Mile 184
Mile 185
Mile 186
Mile 187
Mile 188
Mile 189
Mile 190
Mile 191
Mile 192
Mile 193
Mile 194
Mile 195
Mile 196
Mile 197
Mile 198
Mile 199
Mile 200
Mile 201
Mile 202
Mile 203
Mile 204
Mile 205
Mile 206
Mile 207
Mile 208
Mile 209
Mile 210
Mile 211
Mile 212
Mile 213
Mile 214
Mile 215
Mile 216
Mile 217
Mile 218
Mile 219
Mile 220
Mile 221
Mile 222
Mile 223
Mile 224
Mile 225
Mile 226
Mile 227
Mile 228
Mile 229
Mile 230
Mile 231
Mile 232
Mile 233
Mile 234
Mile 235
Mile 236
Mile 237
Mile 238
Mile 239
Mile 240
Mile 241
Mile 242
Mile 243
Mile 244
Mile 245
Mile 246
Mile 247
Mile 248
Mile 249
Mile 250
Mile 251
Mile 252
Mile 253
Mile 254
Mile 255
Mile 256
Mile 257
Mile 258
Mile 259
Mile 260
Mile 261
Mile 262
Mile 263
Mile 264
Mile 265
Mile 266
Mile 267
Mile 268
Mile 269
Mile 270
Mile 271
Mile 272
Mile 273
Mile 274
Mile 275
Mile 276
Mile 277
Mile 278
Mile 279
Mile 280
Mile 281
Mile 282
Mile 283
Mile 284
Mile 285
Mile 286
Mile 287
Mile 288
Mile 289
Mile 290
Mile 291
Mile 292
Mile 293
Mile 294
Mile 295
Mile 296
Mile 297
Mile 298
Mile 299
Mile 300
Mile 301
Mile 302
Mile 303
Mile 304
Mile 305
Mile 306
Mile 307
Mile 308
Mile 309
Mile 310
Mile 311
Mile 312
Mile 313
Mile 314
Mile 315
Mile 316
Mile 317
Mile 318
Mile 319
Mile 320
Mile 321
Mile 322
Mile 323
Mile 324
Mile 325
Mile 326
Mile 327
Mile 328
Mile 329
Mile 330
Mile 331
Mile 332
Mile 333
Mile 334
Mile 335
Mile 336
Mile 337
Mile 338
Mile 339
Mile 340
Mile 341
Mile 342
Mile 343
Mile 344
Mile 345
Mile 346
Mile 347
Mile 348
Mile 349
Mile 350
Mile 351
Mile 352
Mile 353
Mile 354
Mile 355
Mile 356
Mile 357
Mile 358
Mile 359
Mile 360
Mile 361
Mile 362
Mile 363
Mile 364
Mile 365
Mile 366
Mile 367
Mile 368
Mile 369
Mile 370
Mile 371
Mile 372
Mile 373
Mile 374
Mile 375
Mile 376
Mile 377
Mile 378
Mile 379
Mile 380
Mile 381
Mile 382
Mile 383
Mile 384
Mile 385
Mile 386
Mile 387
Mile 388
Mile 389
Mile 390
Mile 391
Mile 392
Mile 393
Mile 394
Mile 395
Mile 396
Mile 397
Mile 398
Mile 399
Mile 400
Mile 401
Mile 402
Mile 403
Mile 404
Mile 405
Mile 406
Mile 407
Mile 408
Mile 409
Mile 410
Mile 411
Mile 412
Mile 413
Mile 414
Mile 415
Mile 416
Mile 417
Mile 418
Mile 419
Mile 420
Mile 421
Mile 422
Mile 423
Mile 424
Mile 425
Mile 426
Mile 427
Mile 428
Mile 429
Mile 430
Mile 431
Mile 432
Mile 433
Mile 434
Mile 435
Mile 436
Mile 437
Mile 438
Mile 439
Mile 440
Mile 441
Mile 442
Mile 443
Mile 444
Mile 445
Mile 446
Mile 447
Mile 448
Mile 449
Mile 450
Mile 451
Mile 452
Mile 453
Mile 454
Mile 455
Mile 456
Mile 457
Mile 458
Mile 459
Mile 460
Mile 461
Mile 462
Mile 463
Mile 464
Mile 465
Mile 466
Mile 467
Mile 468
Mile 469
Mile 470
Mile 471
Mile 472
Mile 473
Mile 474
Mile 475
Mile 476
Mile 477
Mile 478
Mile 479
Mile 480
Mile 481
Mile 482
Mile 483
Mile 484
Mile 485
Mile 486
Mile 487
Mile 488
Mile 489
Mile 490
Mile 491
Mile 492
Mile 493
Mile 494
Mile 495
Mile 496
Mile 497
Mile 498
Mile 499
Mile 500
Mile 501
Mile 502
Mile 503
Mile 504
Mile 505
Mile 506
Mile 507
Mile 508
Mile 509
Mile 510
Mile 511
Mile 512
Mile 513
Mile 514
Mile 515
Mile 516
Mile 517
Mile 518
Mile 519
Mile 520
Mile 521
Mile 522
Mile 523
Mile 524
Mile 525
Mile 526
Mile 527
Mile 528
Mile 529
Mile 530
Mile 531
Mile 532
Mile 533
Mile 534
Mile 535
Mile 536
Mile 537
Mile 538
Mile 539
Mile 540
Mile 541
Mile 542
Mile 543
Mile 544
Mile 545
Mile 546
Mile 547
Mile 548
Mile 549
Mile 550
Mile 551
Mile 552
Mile 553
Mile 554
Mile 555
Mile 556
Mile 557
Mile 558
Mile 559
Mile 560
Mile 561
Mile 562
Mile 563
Mile 564
Mile 565
Mile 566
Mile 567
Mile 568
Mile 569
Mile 570
Mile 571
Mile 572
Mile 573
Mile 574
Mile 575
Mile 576
Mile 577
Mile 578
Mile 579
Mile 580
Mile 581
Mile 582
Mile 583
Mile 584
Mile 585
Mile 586
Mile 587
Mile 588
Mile 589
Mile 590
Mile 591
Mile 592
Mile 593
Mile 594
Mile 595
Mile 596
Mile 597
Mile 598
Mile 599
Mile 600
Mile 601
Mile 602
Mile 603
Mile 604
Mile 605
Mile 606
Mile 607
Mile 608
Mile 609
Mile 610
Mile 611
Mile 612
Mile 613
Mile 614
Mile 615
Mile 616
Mile 617
Mile 618
Mile 619
Mile 620
Mile 621
Mile 622
Mile 623
Mile 624
Mile 625
Mile 626
Mile 627
Mile 628
Mile 629
Mile 630
Mile 631
Mile 632
Mile 633
Mile 634
Mile 635
Mile 636
Mile 637
Mile 638
Mile 639
Mile 640
Mile 641
Mile 642
Mile 643
Mile 644
Mile 645
Mile 646
Mile 647
Mile 648
Mile 649
Mile 650
Mile 651
Mile 652
Mile 653
Mile 654
Mile 655
Mile 656
Mile 657
Mile 658
Mile 659
Mile 660
Mile 661
Mile 662
Mile 663
Mile 664
Mile 665
Mile 666
Mile 667
Mile 668
Mile 669
Mile 670
Mile 671
Mile 672
Mile 673
Mile 674
Mile 675
Mile 676
Mile 677
Mile 678
Mile 679
Mile 680
Mile 681
Mile 682
Mile 683
Mile 684
Mile 685
Mile 686
Mile 687
Mile 688
Mile 689
Mile 690
Mile 691
Mile 692
Mile 693
Mile 694
Mile 695
Mile 696
Mile 697
Mile 698
Mile 699
Mile 700
Mile 701
Mile 702
Mile 703
Mile 704
Mile 705
Mile 706
Mile 707
Mile 708
Mile 709
Mile 710
Mile 711
Mile 712
Mile 713
Mile 714
Mile 715
Mile 716
Mile 717
Mile 718
Mile 719
Mile 720
Mile 721
Mile 722
Mile 723
Mile 724
Mile 725
Mile 726
Mile 727
Mile 728
Mile 729
Mile 730
Mile 731
Mile 732
Mile 733
Mile 734
Mile 735
Mile 736
Mile 737
Mile 738
Mile 739
Mile 740
Mile 741
Mile 742
Mile 743
Mile 744
Mile 745
Mile 746
Mile 747
Mile 748
Mile 749
Mile 750
Mile 751
Mile 752
Mile 753
Mile 754
Mile 755
Mile 756
Mile 757
Mile 758
Mile 759
Mile 760
Mile 761
Mile 762
Mile 763
Mile 764
Mile 765
Mile 766
Mile 767
Mile 768
Mile 769
Mile 770
Mile 771
Mile 772
Mile 773
Mile 774
Mile 775
Mile 776
Mile 777
Mile 778
Mile 779
Mile 780
Mile 781
Mile 782
Mile 783
Mile 784
Mile 785
Mile 786
Mile 787
Mile 788
Mile 789
Mile 790
Mile 791
Mile 792
Mile 793
Mile 794
Mile 795
Mile 796
Mile 797
Mile 798
Mile 799
Mile 800
Mile 801
Mile 802
Mile 803
Mile 804
Mile 805
Mile 806
Mile 807
Mile 808
Mile 809
Mile 810
Mile 811
Mile 812
Mile 813
Mile 814
Mile 815
Mile 816
Mile 817
Mile 818
Mile 819
Mile 820
Mile 821
Mile 822
Mile 823
Mile 824
Mile 825
Mile 826
Mile 827
Mile 828
Mile 829
Mile 830
Mile 831
Mile 832
Mile 833
Mile 834
Mile 835
Mile 836
Mile 837
Mile 838
Mile 839
Mile 840
Mile 841
Mile 842
Mile 843
Mile 844
Mile 845
Mile 846
Mile 847
Mile 848
Mile 849
Mile 850
Mile 851
Mile 852
Mile 853
Mile 854
Mile 855
Mile 856
Mile 857
Mile 858
Mile 859
Mile 860
Mile 861
Mile 862
Mile 863
Mile 864
Mile 865
Mile 866
Mile 867
Mile 868
Mile 869
Mile 870
Mile 871
Mile 872
Mile 873
Mile 874
Mile 875
Mile 876
Mile 877
Mile 878
Mile 879
Mile 880
Mile 881
Mile 882
Mile 883
Mile 884
Mile 885
Mile 886
Mile 887
Mile 888
Mile 889
Mile 890
Mile 891
Mile 892
Mile 893
Mile 894
Mile 895
Mile 896
Mile 897
Mile 898
Mile 899
Mile 900
Mile 901
Mile 902
Mile 903
Mile 904
Mile 905
Mile 906
Mile 907
Mile 908
Mile 909
Mile 910
Mile 911
Mile 912
Mile 913
Mile 914
Mile 915
Mile 916
Mile 917
Mile 918
Mile 919
Mile 920
Mile 921
Mile 922
Mile 923
Mile 924
Mile 925
Mile 926
Mile 927
Mile 928
Mile 929
Mile 930
Mile 931
Mile 932
Mile 933
Mile 934
Mile 935
Mile 936
Mile 937
Mile 938
Mile 939
Mile 940
Mile 941
Mile 942
Mile 943
Mile 944
Mile 945
Mile 946
Mile 947
Mile 948
Mile 949
Mile 950
Mile 951
Mile 952
Mile 953
Mile 954
Mile 955
Mile 956
Mile 957
Mile 958
Mile 959
Mile 960
Mile 961
Mile 962
Mile 963
Mile 964
Mile 965
Mile 966
Mile 967
Mile 968
Mile 969
Mile 970
Mile 971
Mile 972
Mile 973
Mile 974
Mile 975
Mile 976
Mile 977
Mile 978
Mile 979
Mile 980
Mile 981
Mile 982
Mile 983
Mile 984
Mile 985
Mile 986
Mile 987
Mile 988
Mile 989
Mile 990
Mile 991
Mile 992
Mile 993
Mile 994
Mile 995
Mile 996
Mile 997
Mile 998
Mile 999
Mile 1000

Department of the Interior Canada

Water Power Branch.

MAP

OF PART OF

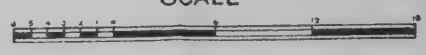
PROVINCE OF MANITOBA

SHEWING AREA FLOODED BY LOWER SASKATCHEWAN RIVER

TO ILLUSTRATE REPORT OF THOS. H. DUNN. FOR SEASON 1912.

PASQUIA RECLAMATION PROJECT.

SCALE



6 MILES TO ONE INCH.

NOTE – THE HEAVY DOTTED LINE INDICATES THE APPROXIMATE BOUNDARY OF THE WET AREA

54·30

54

53·30

AMICK LAKE

ATHAPAPUSKOW LAKE

CRANBERRY LAKE

REED LAKE

GOOSE LAKE

Goose River

Ey River

NAMEW LAKE

CORMORANT LAKE

Frog River

Big Lake

Mucky River

Wintering Island

Burnt Woods

(860)

Clear Water Lake

ROCK LAKE

JACKPINE ISLAND

CUMBERLAND LAKE

Cumberland

Saskatchewan River

REDGER LAKE

Birch River

SASKERAM LAKE

Swan Lake

SASKATCHEWAN

LE PAS

Little River

Carrot River

Wooden Tent

Pas Forks

PASQUIA MOUNTAINS

CANADIAN NORTHERN RAILWAY

PROVINCE OF SASKATCHEWAN

PROVINCE OF MANITOBA

Pasquia River

Overflowing River

Pine Bluff

Saskatchewan River

Hill. Islands

Pine Lake

Summerberry or Moose Lake River

Driftwood Lake

Trapper Lake

H.B.Co

(846)

MOOSE LAKE

Rapids

Muskeg Lake

Muskeg Lake

Stable Lake

Devil's River

Trying Pan

Rapids

Chemawawin (Cedar Lake) H.B.Co

The Crossing

Portage

CEDAR LAKE

(805)

Mossey Portage

CLEAR LAKE

Old Channel

LAKE

Department of the Interior Canada
Water Power Branch.

PLATE Nº 37

MAP

OF PART OF

PROVINCE OF MANITOBA

SHEWING AREA FLOODED BY LOWER SASKATCHEWAN RIVER

TO ILLUSTRATE REPORT OF THOS. H. DUNN. FOR SEASON 1912.

PASQUIA RECLAMATION PROJECT.

SCALE

6 MILES TO ONE INCH.

NOTE – THE HEAVY DOTTED LINE INDICATES THE APPROXIMATE BOUNDARY OF THE WET AREA

54-30

54

53-30

MANITOBA

LAKE WINNIPEG

Wekuskow Lake
Reed Lake
Cranberry Lake
Cormorant Lake
Frog River
Big Lake
Wuchty River
Dogrie
Waterfowl Island
Burnt Woods
(860) Clear Water Lake
Reeder Lake
Saskatchewan River
Le Pas
Little River
Wooden Tent
Big Lake
Summerberry or Moose Lake River
Hill Islands
Pine Bluff
Saskatchewan River
Trying Path
Old Channel
Driftwood Lake
Trapper's Lake
H.B.Co
(846)
Moose Lake
Rapids
Mud Lake
Sturgeon River
Muskeg Lake
Stable Lake
Devil's River
Devils Lake
Whitemud Lake
Clear Lake
Herring River
Herring Lake
Pine Point
Chemawawin (Cedar Lake) H.B.Co
The Crossing.
Portage
Cedar Lake
(835)
Moosey Portage
Rabbit Point
Collins L.
Eos Lake
William Lake
William River
Limestone Bay.
Eagle I.
Sturgeon-weir R.
Buffalo R.
Selkirk or Horse Island
(715)
The Narrows
Cross Lake
Cross Lake Rapids
Tail Rock Rapids
Grand Rapids
Portage
Portage

54:30
54
53:30
53
52:30
100
100:30
101
101:30
35:30
LAKE WINNIPEGOSIS
LAKE WINNIPEG
Limestone Bay
Eagle I.
Sakwirk or Horse Island
(705)
Swan River
Bellgrade R.
WILLIAM LAKE
Cross Lake
(820)
Pinehouse Lake
Devils Lake
Whitemud Lake
Devils River
Meeting River
Knight
Collins
MOOSE LAKE
(846)
CLEAR LAKE
CEDAR LAKE
(805)
Old Channel
Mud Lake
Strawberry River
Pine Hill Islands
Saskatchewan River
Sturgeon River
or Moose Lake River
Big Lake
Wooden Tent
Little Bear Lake
Eco Lake
Moose Woods
Moose Lake
Frog River
Big Lake
Cormorant Lake
Clear Water Lake
(978)
SASKATCHEWAN
Le Pas
Little River
Reader Lake
Clearwater Lake
MANITOBA
Grand I.
BIRCH ISLAND
LAKE WINNIPEGOSIS
Dawson Bay
SWAN LAKE
Red Deer Lake
Canadian National Railways
Chemawawin Indian Reserve No. 3
Chemawawin Indian Reserve No. 3A
Chemawawin Indian Reserve No. 4
Chemawawin Indian Reserve No. 4A
Chemawawin Indian Reserve No. 4B
Chemawawin Indian Reserve No. 4C
Chemawawin Indian Reserve No. 4D
Chemawawin Indian Reserve No. 4E
Chemawawin Indian Reserve No. 4F
Chemawawin Indian Reserve No. 4G
Chemawawin Indian Reserve No. 4H
Chemawawin Indian Reserve No. 4I
Chemawawin Indian Reserve No. 4J
Chemawawin Indian Reserve No. 4K
Chemawawin Indian Reserve No. 4L
Chemawawin Indian Reserve No. 4M
Chemawawin Indian Reserve No. 4N
Chemawawin Indian Reserve No. 4O
Chemawawin Indian Reserve No. 4P
Chemawawin Indian Reserve No. 4Q
Chemawawin Indian Reserve No. 4R
Chemawawin Indian Reserve No. 4S
Chemawawin Indian Reserve No. 4T
Chemawawin Indian Reserve No. 4U
Chemawawin Indian Reserve No. 4V
Chemawawin Indian Reserve No. 4W
Chemawawin Indian Reserve No. 4X
Chemawawin Indian Reserve No. 4Y
Chemawawin Indian Reserve No. 4Z

UAA-1974-169-9/2/7/6/37-027

THE S

Scale 10

28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13

Hanwarden
Strongfield.
Lore
ELBOW
LAKE
SASKATCHEWAN RIVER
Sage Creek
PROPOSED DAM
1st SURVEY
Boldenhurst.
PROPOSED DAM
Millstone Creek
Bryceton
2nd SURVEY.
ALTERNATIVE ROUTE
BERNARD
SOUTH
LOG VALLEY.
VERMILLION HILLS.
Hartfield.
Aikton
Bridgeford.
Tugashe
Eyebrow
Brownlee.
Keeler.
Marquis
Tuxford.
Belbeck.
Bobarm
Craik
Aylesbury
Chamberlain
Findlater
Badworth.
Davidson
Girvin
C. N. R.
C. P. R.
EYEBROW LAKE
PROPOSED APPROX. RIVER MURRAY
Buffalo Pond Lake
PIPE LINE
THUNDER CREEK
G. T. P.
PROPOSED
PROJECTED
PROPOSED BY MOOSE JAW ENGINEERS
GRAVITY AS PROPOSED BY
PIPE IRRIGATION
Simpson
Imperial.
Stalwart
Liberty.
Penzance.
Holdfast
Dilke
Keddleston
Regina Beach.
Bethune
Lumsden.
Disley.
Tregarva
Brava
Albatross
Victoria Plains.
Dixot Bulle
Craven.
Silton.
Govan.
Duval.
Strasburg
Bulyea
Gibbs
Earl Grey
Southey
Cupor
Dysart
Linton
I. R.
Moosomin
Edgeley
Arat.
Zehmer.
Edenwold
Balgonie
McLean
Qu'Apelle
Draghorn
Jameson.
Richardson
Raven
Vibank
Kronau
Manybone
Lajord
Sedley
Riceton
Gray
Wilcox
Rouleau
Pitman
Prinkwater
Genest
Archive
Buttress.
Crestwynd.
Pasqua.
Belle Plain
Perse
Grand Coulee
REGINA
MOOSE JAW
Moose Jaw Creek
APPROX. ROUTE
MOUNTAIN
LAKE
JOHNSTON LAKE
CHAPLIN LAKE
Herbert
Morse
Ernfold
Uren
Chaplin
Secretan
Melba
Parkberg
Mortlach
Caron.
C. P. R.
G. T. P.
I. R.

PLATE Nº38

DEPARTMENT OF THE INTERIOR.

WATER POWER BRANCH.

J. B. CHALLIES, SUPERINTENDENT.

CITY WATER SUPPLY FROM
THE SOUTH SASKATCHEWAN RIVER.
SHOWING ROUTES PROPOSED

TO ACCOMPANY REPORT BY H.E.M. KENSIT. M.I.E.E.

Scale —

Scale 10 0 10 20 30 40 MILES.

Ottawa Ont. March. 20th 1913.

F.W.B.

Simpson
Badworth
Imperial
Davidson
Stalwart
Girvin
Liberty
Craik
Penzance
Aylesbury
Holdfast
Eyebrow
Chamberlain
Dilke
Keddleston
Findlater
Regina Beach
Silton
Gibbs
Brownlee
Keeler
Bethune
Craven
Lumsden
Disley
Marquis
Tuxford
Belbeck
Caron
Mortlach
Moose Jaw
Belle Plain
Pasqua
Bobarm
Archive
Buttress
Crestwynd
Pitman
Prinkwater
Rouleau
Wilcox
Gray
Riceton
Genest
Regina
Pense
Grand Coulee
Draghorn
Pilot Butte
Balgonie
Jameson
Richardson
Craven
Kronau
Vibank
Odessa
Kendal
Lajord
Sedley
Francis
Manybone Creek
Tregarva
Brora
Albatross
Victoria Plains
Zehner
Arat
Edenwold
Edgeley
Moskow
Ft. Qu'Apelle
Lebret
Abernethy
Lemberg
Neudorf
Killaly
Melville
Gillespie
Balcarres
Patrick
Linton
Cupor
Southey
Earl Grey
Bulyea
Duval
Strasburg
Govan
Girvin
Qu'Apelle
McLean
Sintaluta
Wolseley
Adair
Baring
Qu'Apelle River
Moose Jaw Creek
Buffalo Pond Lake
Last Mountain Lake
I. R.
C. P. R.
C. N. R.
G. T. P.
PROPOSED BY QU'APPELLE MURRAY
PROJECTED
GRAVITY AS PROPOSED BY
PIPE IRRIGATION
APPROX. ROUTE
JOHNSTON LAKE

PROPOSED GRAVITY PIPE IRRIGATION LINE

APPROX. ROUTE

DEPT.

Pasqua. Richardson Raven Adair

Archive Prinkwater Genest Krondu Vibank Odessa Kendal Baring

Buttress. Pitman Rouleau Lajord Mangoburn Creek

JOHNSTON LAKE

Crestwynd. Gray Sedley D'Francis

Dunkirk. Wilcox Riceton Tyvan

Expanse. Milestone Osager

CONSUMERS COAL COMPANY

Traux. Lang. Coalfax Cedoux Filmore

RIVER

LAKE OF THE

Drummer Parry Yellow Grass Tolimage Creelman

Moreland McTaggart Howard

Pangman WEYBURN Stoughton

Amulet Forward Knedive Forget

Glasnevin Ogema

Horizon

Viceroy Hardy Radville

Willowbunch Lake Rae Ceylon

Bengough Kitchie

Neptune Webster Colgate Goodwater Lowell Macoun

Maxim

Tribune

Bromhead

BIG MUDDY LAKE

ESTEVAN

Roche Percee

A.S. PORTER'S COAL BEARING LANDS (SHOWN PINK)

BOUNDARY

THIRD MERIDIAN

C.P.R. C.N.R. G.T.P.

1 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7

106° 105° 104° 103°

F.W.B.

GRAVITY PROPOSED BY

PIPE IRRIGATION DEPT.

APPROX. ROUTE

LINE

CHAPLIN LAKE

JOHNSTON LAKE

WOOD RIVER

LAKE OF THE RIVERS

TWELVE MILE LAKE

WILLOWBUNCH LAKE

BIG MUDDY LAKE

THIRD MERIDIAN

C. P. R.

C. N. R.

PROJECTED C. P. R.

PROJECTED

G. T. P.

CONSUMERS COAL COMPANY

Archive

Buttress.

Crestwynd.

Dunkirk.

Expanse.

Pasqua.

Prinkwater

Pitman

Rouleau

Wilcox

Genest

Kronau

Vibank

Lajord

Gray

Sedley

Riceton

D'Francis

Milestone

Coalfax

Lang.

Cedoux

Traux.

Drummer

Parry

Yellow Grass

McTaggart

Moreland

Pangman

Amulet

Forward.

Knedive

WEYBURN

Glasnevin

Ogema

Horizon

Viceroy

Bengough

Rae

Kitchie

Hardy

Ceylon

Radville

Neptune.

Webster.

Colgate.

Maxim

Tribune

INTERNATIONAL BOUNDARY

107° 106° 105° 104°

UAA-1974-169-9/2/7/6/37-029

T.24

T.23.

R.15. R.14 R.13. R.12. R.11. R.10. R.9. R.8. R.7. R.6. R.5.

THIRD MERIDIAN

LUCK LAKE

WHITEBEAR LAKE

Dam Site A

Dam Site B

Dam Site C

Div. A

Div. B

Div. C

Div. D

Div. E

Div. F

Reservoir Site

PROPOSED DIVISION No 3

Saskatchewan River

South Branch

Saskatchewan Landing

Swanson Creek

Rush Lake

Reed Lake

Lake Chaplin

Chaplin River

Chaplin Creek

Thyne Creek

Pelican Lake

Riverside

Bridgeford

Aikow

Sand Hills

Tugaske

Eyebrow

Mower

Barmoor

Brownlee

Keeler

Outlook

Lanstrom

Rowlett

Forgrey

Archydale

Morse

Ernfold

Secretan

Parkbeg

Mortlach

Coteau Creek

Bethune

Elbow

Trunk Railway

Grand Trunk Pacific Railway

Canadian Pacific Railway

1983.82

1961.45

1980.73

1986.07

1985.55

1954.32

T.22.

T.21.

T.20.

T.19.

T.18.

T.17.

T.16.

T.15.

T.14.

T.13.

CANADIAN NORTHERN

Hamberlin

Findlater

NORTHERN

Bethune

RAILWAY

Buffalo Pound Lake

Disley

Craven Junction

River

Lumsden

OUTLOOK

Marquis 1953-56

BRANCH

Qu'Appelle

Tuxford 1952-75

Highland Ck.

Fairville

Big Bay

Victoria Plains

Creek

Regina

Pilot Butte

Balgonie

Archibald

Aelbeck 1914-05

Stonybeach

Wayburn

Cottonwood Ck.

Moosejaw

Creek

TRUNK PACIFIC RAILWAY

Grand Trunk

1883-51

1882-83 CANADIAN NORTHERN

Dreghorn

Jamieson

RY.

Devin

Richardson 1895-96

Creek

1881-99

Moose Jaw 1766-05

GRAND TRUNK PACIFIC RAILWAY

Belle Plaine

Pasqua

CANADIAN

Pasqua 1870-10

Pasqua PO

Coch 1847-70

Aqualin 1911-55

Creek

Anhur 1864-88

1929 Dec.

Baildon 1896-3

Archive

Drinkwater 1865-27

Moosejaw

Pitman 1883-22

1913-89

Kajord 1941-29

PACIFIC

Badger 1946-42

PIPE

Tilney

1874-3

Bulfresa

Briarcrest 1912-15

1878-38

Roulpay

CANADIAN

Dipple 1884-79

Francis 1964-89

N°5

DIVISION

T.16.

T.15.

T.14.

T.13.

T.12.

T.11.

T.10.

T.9.

T.8.

T.7.

T.6.

R.28. R.27. R.26. R.25. R.24. R.23. R.22. R.21. R.20. R.19. R.18. R.17. R.16. R.15. R.14. R.13. R.12.

PIPE LINE

DIVISION No 5

DIVISION No 4

CANADIAN PACIFIC RAILWAY

NORTHERN RAILWAY

Lethbridge Branch

Bow River

Lake of the Prairies

Bonanza 1766·05

Bow Island 1881·99

Richardson 1895·56

Revin

Hyndman 1913·89

Layard 1941·29

Bodley 1945·42

Francis 1954·99

Tyvan 1940·28

Deane 1990·39

Millstone 1903·86

1906·70

1899·24

1892·52

Wilcox 1896·16

Brownfield 1884·79

1878·38 Rouleau

Pitman 1865·22

Moose Lake

Tilley 1874·0

Bowdoin 1896·9

Drinkwater 1865·27

Cork 1847·70

Pasqua 1870·10

Pasqua PO

Bethune 1911·55

Archive

Anker 1864·28

1919·78

Gulfpress

Briarcrest 1912·5

Hearne 1928·8

Crestwynd

Dunkirk

1903·8

1933·7

Arnaud

Wessliffe

Truax 2054·0

Dunfirm 2080·0

1904·57

Ibsen 1897·17

Hayter 2091·9

Derry

Morland 2106·0

Bangman

Amulet

Kilmarnock 2123·3

Formosa 2125·0

Abbot 2123·9

Forward 2148·95

1985·32

Crossroads

(Heyburn)

Yeomans 1899·65

Mayfair 1848·84

Mt Taggart 1875·44

Hillsburg 1889·99

Forda

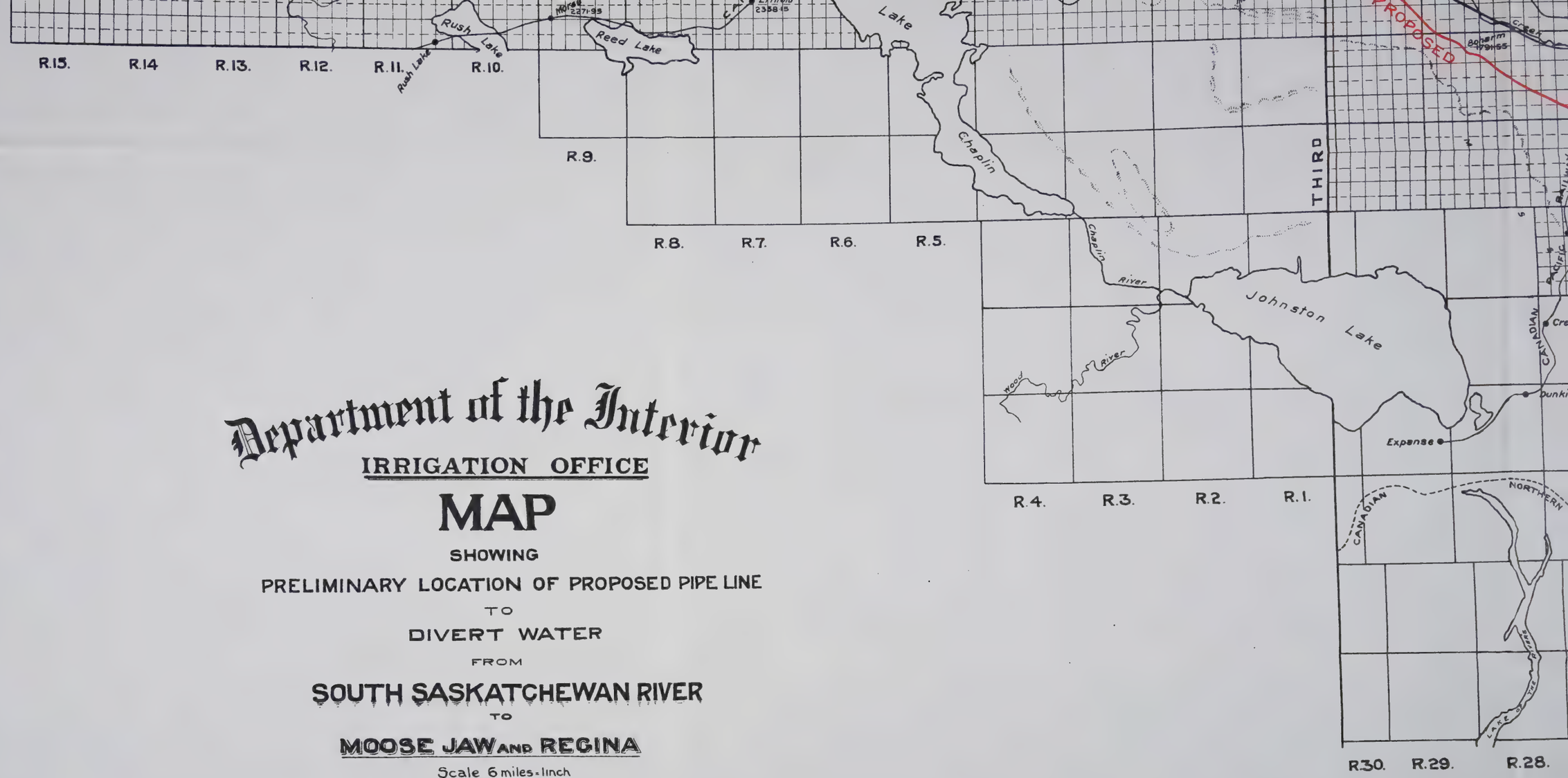
Coronado

Walsh

Walbrite

Mountain

Creek



Department of the Interior

IRRIGATION OFFICE

MAP

SHOWING

PRELIMINARY LOCATION OF PROPOSED PIPE LINE

TO

DIVERT WATER

FROM

SOUTH SASKATCHEWAN RIVER

TO

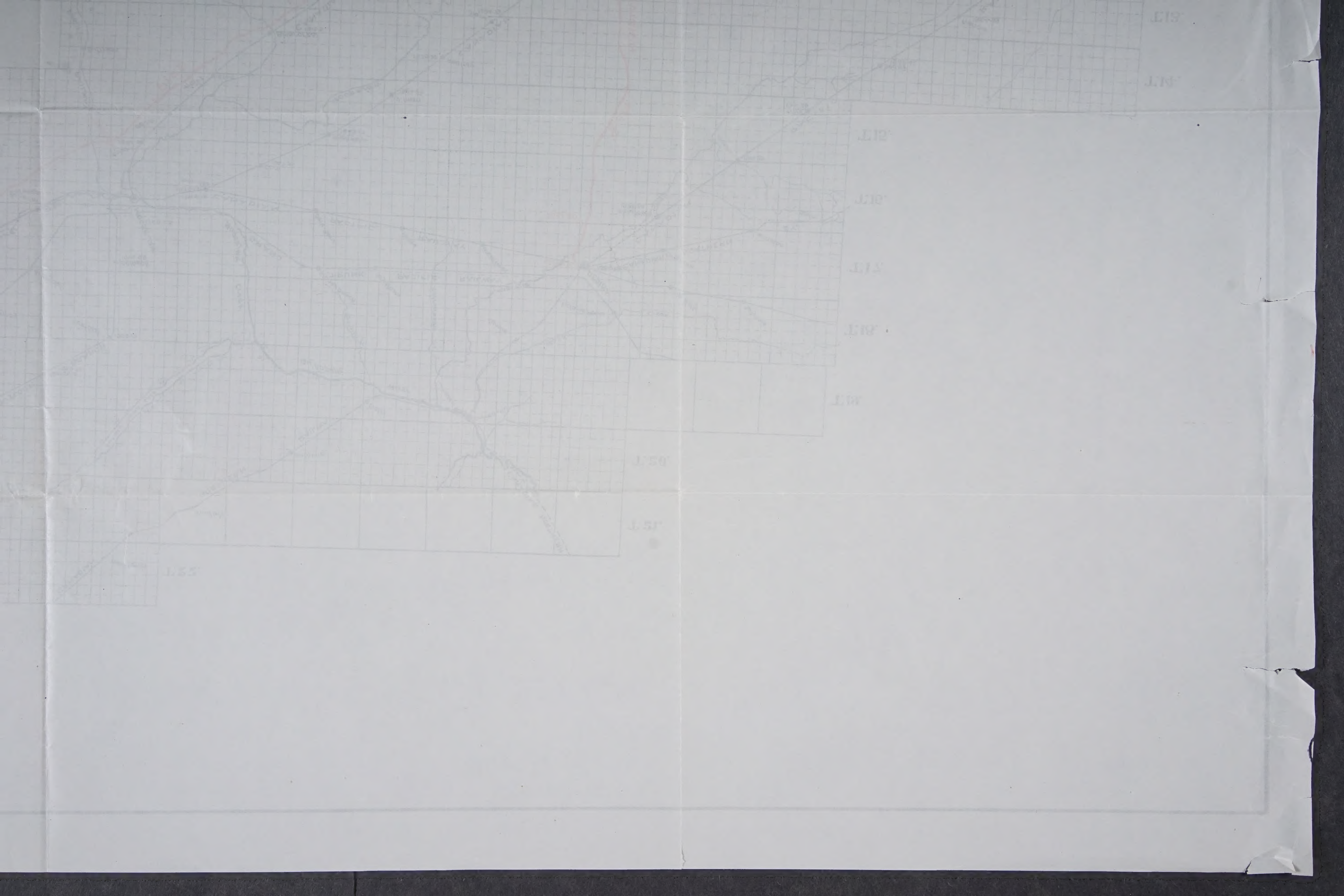
MOOSE JAW AND REGINA

Scale 6 miles - 1 inch

LEGEND

Pipe Line shewn thus	———
Trial Lines - -	- - - - - - -
Govt. B.M^s. - -	O
Railway Elevations shewn thus	1968·62
Govt. - " -	1968·62

NOTE- All elevations referred to C.P.R. Winnipeg Datum.



UAA-1974-169-9/2/7/6/37-029